

RECORD

 $\rho_{i}^{\prime}=0$

A TOTAL OF THE STATE OF THE STA

and the first of the first

Ketchak-Dance of Bone

Originally the ketchak was a choir of men who by their litanies cooperated with the Sanghyang girl that was to be put into a trance. The intention of any Sanghyang (trance) performance was that the girl while in a state of trance (semi-consciousness) would be capable of hearing and telling the wishes of the gods or of the ancestors.

At present this ketchak is also performed with a special story (libretto). This story has been chosen from the Ramayana saga. Very condensed, the contents of the Ramayana saga are as follows:

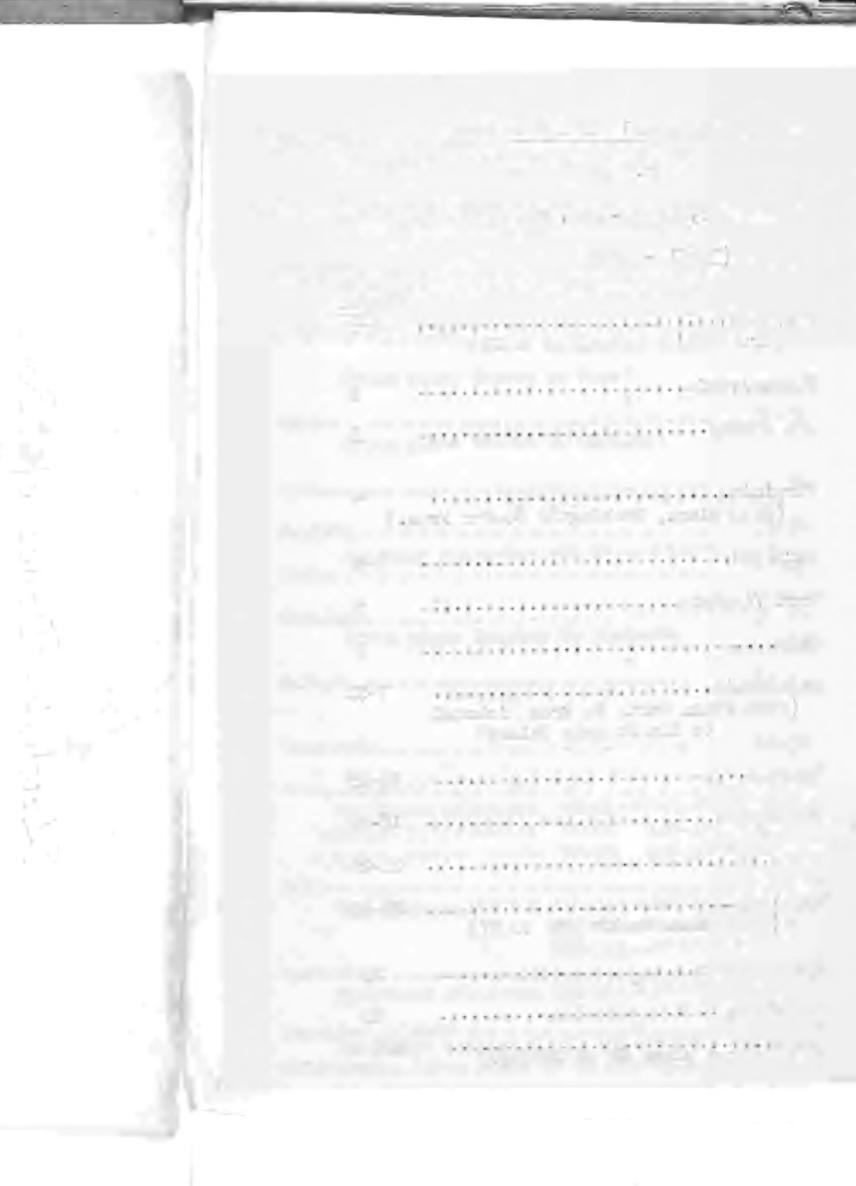
By intrigue Rama, the legal heir to the throne of Ayodhya, is exiled from the realm of his father Dasaratha. Accompanied by his wife Sita and his younger brother Laksamana he moves from his father's palace and goes into the forest. Here he goes through many adventures and finally he is chasing the deer with the golden horns. At a certain moment his wife Sita remains alone without protection. Then she is kidnaped by the followers of Rawana, the king of the demons. After that, Rama with the assistance of the army of monkeys, under the command of Hanuman, attacks the residence of Rawana, called Lengkapura (Ceylon).

The monkeys are building a weir of bridge between Hindustan and Lengkapura and the battle ends with the victory of Rama. Some episodes from this saga are represented in the dance of the principal figures:

- 1. After the departure of Rama, Sita is speaking to his younger brother Laksamana. Sita orders him to go and help Rama who has persued the deer with the golden horns, because Sita hears a call for help, thinking it is Rama, who calls for help.
- 2. Sita, already kidnaped by Rawana, is staying at a bower in his palace. There she is visited by Rawana, who asks her hand for marriage. She then burst all into tears.
- 3. Rama marches out to Lengkapura to rescue Sita, his wife. He meets Meganada, Rawana's son and becomes involved in a combat with the demon. Meganada shoots his arrow, which turns into a serpant and ties Rama up like a rope.
- 4. Rama tied up, beseeches the gods to help him. Then Wishnu's bird, Garuda, is sent to free Rama.
- 5. Hanuman, the king of the monkey talks with his generals and mobilizes his army for a battle against Lengkapura. The performance ends with the battle-scene between the army of Hanuman (monkeys) and the army of Rawana (Rakshashas or demons).

N.V. Travel Bureau "BALITOUR"

Denpasar (Bali)



Collection and Field Note Book No. 53 (Nov. 5, 1958 - Jan. 20, 1959) (39651 - 39809 Maryland..... (from train Washington to NY) Pennsylvania.... New Jersey..... Virginia..... (from plane, Washington to San Fran.) Maryland..... West Virginia.... Ohio..... 6 California..... 7-11 (from train Santa Fe from Richmond to San Joaquin Valley) Arizona...... 12-15 New Mexico..... 16-21 Maryland..... (from plane Washington to NY) Pennsylvania..... New Jersey..... 25 Iowa. (from plane SF to Chicago) ...

190

New York (from plane New York to Scotland)	25-26
Denmark (from plane Copenhagen-Dusseldorf)	28
Germany (from plane Dusseldorf to Geneva)	28-29
Switzerland	29-31
(from plane Geneva to Rome)	
Oman	31-32
Iran	33
Pakistan	33-36
Specimen collected 52-53 - 3965/ India	37-42
Thailand (from plane Bangkok to Djakarta	31-45
Malaya	42-46
Indonesia	48-50
Javap. 110 * 39766-39769 Specimens collected 58-61*39652-39668; #39669-39718	19741-39765
Beli	786
Australia	139-179 9805 1807
Hawaiian Islands	180-181

******************************** AND REAL PROPERTY. 200 100 100 C-00-1211-71-0-1212-1-112-1-2 -----------

EXCURSION III

to

Baluran (East Java) and Bali

by Bus.

- Dec. 22. Leaving Tjiawi at 6.00 a.m. for Solo in Central Java via Bandung, Tjirebon, Tegal, Semarang and Salatiga. It will be a heavy journey this day. Midwey Tjiawi-Bandung we will see some plantations of teak, which are truly out of bounds from an ecological angle: the annual rainfall is too high; age about 10 years. Afterwards the bus climbs along the slopes of bare hills: G. Missigit tertiary formations of limestone. Bandung will be reached at 8.30; the capital of West Java, well-known since the Asia-Africa Conference in 1956; Centre of Institutes devoted to the study of the Natural Sciences, Physics, etc. Leaving Bandung on our left hand the volcano Tangkubanprahu, which is still active, on the slopes of which are cultivated Cinchona and Pinus merkusii. For some kilometres we will drive along ravines with picturesque landscapes, with Bamboo, Eupatorium palescens and Alsophila spp. Entering the plains of Tjirebon on our right hand we see the Nunuk hills, which are severely eroded. These plains are the most western part of Java where sugar cane can be grown. From here the region with a distinct monsoon climate starts. From Tjirebon to Semarang the road follows the north coast of Central Java. This is a region where onions are grown on a large scale and further more sugar cana and rice. Lunch will be at Tegal at 13.00. At 5.00 p.m. we will be passing through Semarang the Capital of Central Java. Along the road to Salatiga we see Myristica fragrans (nutmeg) and Hevea plantations. At sunset we will have left Salatiga and we hope to arrive at the Dana-Hotel in Solo at 7.00 p.m. Solo is the Centre of Javanese art and culture. The Sunan has his palace here.
- Dec. 23. Solo Madiun Gempol Pasirputih.

 Depature from the Dana-Hotel at 7.00 a.m.

 For an hour the journey is not very interesting: wide plains just ploughed for growing rice in the next wet season.

After crossing the border between Central and East Java (after about one hour and a half) we will be driving through teak plantations, most of which are devastated by cattle. Typical species of the Malaysian Monsoon Forests will be seen here, some of which are: Acacia leucophloea, Schleichera oleosa, Schoutenia ovata, Butea monosperma, Lagerstroemia cinerea, Homalium tomentosum. Before Ngawi near Trinil, Dubois discovered the famous Pitecanthropos erectus dating from the middlepleistocene. The volcane on our right hand is the Lawu. After Madium we will see again some teak forests of various age. Just after Kertosono the river Brantas will be crossed; this river causes trouble every year by its floods. Between Djombang and Modjokerto was the centre of the 13th century kingdom of Modjopahit. In a museum in Trowulan, near Modjokerto, some antiquities from those times are conserved. At 1.00 p.m. lunch will be served at Gempol. The afternoon-trip after Gempol along the north coast of East Java will be for about 3 hours via Pasuruan, Probolinggo. End of this day's journey will be Pasirputih (White sands); staying the night over here in rest-houses on the beach.

The Baluran region

This region contering around the extinct Baluran volcano is characterized by its dry climate (less than 1000 mm annually) with a severe dry monsoon of 10 months. In the dry season dry winds come down from the Idjen Pass (600 ft.).

There are practically no rivers. The soil, originally lava, has changed into heavy, black earth, strewn with basalt and

andezite blocks.

The vegetation is savana-like, along the small mountainn stroams we find gallery forest. During the dry season the vegetation burns regularly, which prevents the re-establishment of the forest. The latter is well developed towards the summit of the Baluran.

Many plants have subterranean parts enabling them to survice drought and fire, such as Dioscorea hispida, Asparagus racemosus, Crinum asiaticum and some orchids (Plantanthera susannae, Pogonia nervillia).

The trees are deciduous and flower often on the bare

branches, e.g. Dillenia pentagyna.

of the grasses the most common is Andropogon amboinicus, f. genuinus, which becomes more than 2 m tall. Other species are A. parviflora, A. zollingeri, A. triticus, A. contortus and A. subtilis. Other tall grasses are Rottboelia exaltata and Ophiurus exaltata, which remind one of a horses tail.

Themeda argueus is also common.

Among the trees the most conspicuous are Acacia leucophloea with yelloe-white bark.

The Palmae are represented by Borassus flabellifer and

Corypha gebanga.

Scattered here and there we find Ficus superba (krasak), and in the driest places a thorny scrub consisting of Feronia elephantum, Regle marmeles, Reacia tomentosa Homalium tomentosum.

We also oncounter Schleichera trijuga (Kosambi), Protium javanicum, Grewia, Phyllanthus emblica, Melia Azedarach, Albizia lebbeckoides and A. procera, Cordia obliqua, Morinda tinctoria and Schoutenia ovata, Tamarindus indica.

On level ground where the heavy impermeable black soil is deeply cracked during the dry season, the grass cover is thinner and Zizyphus mauritiana is common, often with an abundance of Ipomoea

At the margins of the open places occur the yellow-flowering

Abutilon indicus and Thespesia lampas, in moister places

Ophioglossum reticulatum.

Rauvolfia serpentina grows in the better parts of the forest, Butea monosperma, the flame of the forest, is common in teak plantations. The teak does not do very well here.

-10%. 1274943

Field notebook no. 53 beginning with 39651 End with 39809



Standard Miniature Blank Book

No. 665 93/x 6 120 Pages Units No. 667 95x6 200 Pages Units Do. 668 91/x 6 300 Pages Units

Whate In the Vellewing Rulings

Journals, Day er Cash Books, Double \$ and Cis. S. E. Ledgers, S and Cas. Bonble Entry Ledgers

Records with Ulargia Linz

When ordering give number and Rullag desired

Made in U.S.A.

A BOORUM & FEASE PRODUCT

1274-45

Field motebook us. 53 beginning with 39651 End with = 1809



Standard Miniature Blank Book

Do. 665 91/2x6 120 Pages Units

Do. 667 914x6 200 Pages Units

Do. 668 914x6 300 Pages Units

Uhade in the Following Hullings

Journale, Day or Cash Books, Bouble S and Cis.

E. E. Ladyara, & and Crs.

Banble Entry Ledgers

Records with Margin Line

When ordering give Number and Ruling desired

Made in U.S.A.

A BOOKUM & PRAISE PRODUCT

1758 Meryland Nov. 5 - 7 rife by lennylowing R.R. from Westington to Kow youll - left side of have. Fall coloring about act its height is a little part. Leaveralmost all faller from therivolendra, Robinia, Betala mara, and sime Plateous Fagus bay, bandlets permeter. diquidambar about at its bed, with a mange from yellow through wange to reds and purples. ack whom very striking, from tright yellow to tright red. Myssa scarlet but some trees, trees. quereur alla Lall purple that mostly already gray - trong greens veleting mostly abready from. greaters exercised deep red to maron. Guereus fralustro crange- from to reddish. greaters phellers yearing from, Thearly have guerous whise orange - red - Crown. There seeves to be considerable variation in stage of charge according to habilet maintif. Extensive fine land along - south of Odenton. north of here the season becomes rapidly more advancy mostly rates and willows still

the devounant trees are now they bere seen

That of Philadelphia Day but more 20 Tran southward, and the colorane much In new Jersey theo in little com left. except in the shoul layer Some trees are still green however. This probably generally reflects the extremely wet season this part announ and the lack To hard frosts. The from Betula populifolis and Populus tremulatordester of grandedentata) use yellow. Liquidambar, though not coundant, is why well colored. The conspicuous coloration in The should layer is of words where the trees are already have should be emphasized. Most of the shows could not be identified from a

distance, but some an accommend.

4 1958 Virginia - Maryland

Nov. 12 air try, Washington a dan francisco, dest sono. I sono. I sono le tornas above la telema le tola and then over thorty man commenço. Ind. and then over thorty man comming to. Ind. apparent, out inorthy trees base on brown. Refield, leas color westernas.

Meny little left at fugaciones.

Met and westerand.

Considerable amount of

gring forest in shortgarnery

Go first world of Mashington

mostly sharply outlined

fratcher, in games not

differing much from the

frielder from the state of free state of from Carles and from the format of from the format of from the segment of t

red-from. Two man range of Blue Ridge here in many land ride, completely separated, the western one only going a shortway.

north, several subordinate ridges

ME A R WHITE

From Age in AN FRANCISCO Train 2, Eastbound California to Chicago 16-ca No A - Leal Pullman, Chair Car Train for the process Mis. clouds wi Road Down Read Down O LV SAN FRANCISCO ... Cal. 11.15AM 4225 1428 Ar CLOVIS (MST) = N M 2 4574 At Clovis turn water. AHUAD one hour. Passengers lake motor coach direct to train side in Rich of place Biolomond Downson and mond Cross San Francisco Ray, 11 1028 Lie Angel Dallas Puri-mas and Chair Cas owns ed to Francis S. Chrysa. 7 Lv DAKLAND Cal. 111. 254M 10 Ly BERKELEY .Cat. 11,35AM Train 26 Let. Carl deals 4.8 am. Ar. Chas 1 00 pan-to connect with Fram 2. 18 Ar RICHMOND Cal. 11 544M .Cat. 11 59AM Cal. \$1214PM 4225 1428 tv Ct OVIS (CST) N.M 4 20PM 76 LV PINOLE 21 52 Lo PITTSBURG ... Cal. 12 47PM 4138 1637 Lo ARWELL TEXICO Tox 4.31PM Cross San Joaquin Wiver. 1 19PM 3798 1486 Ly MEREFORD 86 Lv STOCKTON 1.2474 3626 1514 LV CANYON 1. (NOM 3667 1532 A AMARILLO -) .Tex 6.00PM .. Croza Stanialaus River tv Riverbank. Cal. 41.49PM
Lv EMPIRE. Cal. 1.55PM
Cross Tuolumne River
Cross Mercel River. 3.662 1532 Lv AMARILLO
Train 94, Lv. Lubboo.
3.05 pm. Ar. Amaril...
5.25 pm., where Chresco.
Pullman ions Train.
1.68PM
3662 1532 Lv AMARILLO
Text...
1.68PM
3443 1559 Lv. AMARILLO 112 Ly RIVERBANK. Cal. 41 .49PM Inx 6 1008 Tex. 16 35°M Tex. 6 59°M Tex. 17 21°M . Cross Chowchilla River . . # 48PM, 2736 1608 Ly MIAMI . 8. AUPM 2344 1630 Ly CANADIAN Tex | 7.451% Cross San Juaguin River . 3 499M 2344 1630 Ly CANADIAN 2560 1656 Ly HIGGINS Ly FRESNO . Cal. 3 309M 2128 1678 Ly GAGE Cross Fresno River . Tex. 18 12PM Okla 8 30FW 216 209 Ly FRESNO Okla. 18 41 PM Okla. 9 12PM 240 Lv HANFORD... Cal. 4.05PM 1100 1702 Lv WOODWARD...

335 295 Lv WASCO... Cal. 74.48PM 1464 1737 Lv WAYNOKA

356 302 Lv SHAFTER... Cal. 74.56PM 1327 1758 Lv ALV A.

404 320 Ar BAKERSFIELD... Cal. 5.25PM 1443 1787 Lv ATTICA

405 200 Lv BAKERSFIELD... Cal. 7.50PM 1417 1799 Lv HARPER

408 Lv EDWARDS... Cal. 48.11PM 1205 1814 Lv WELLINGTON

457 ... Crow Moines River. month Okla 10 05Ph Okla 10 2719 Kan 10 50m Kan. (1114PM Kan. [1133mm Kan 12 2014M 105 458 Ar BARSTOW Cal. 9.08PM 1312 1878 Lv WICHITA 105 458 Lv BARSTOW Cal. 9.10PM 1445 1905 Lv NEWTON 105 458 Lv BARSTOW Cal. 9.20PM 1178 1975 Lv NEWTON 1178 1975 Lv Kan 1 10AM Kan 2.054N | 105 | 458 | Lv BARSTOW | Cal. | 9 | 20 m | 1445 | 1370 | Lv NEWTON | 476 | 623 | Lv NEEDLES (PST) | Cal. | 12 | 05 Am | Laaving Nordlon turn | watchen AHEA Doneshour. | 811 | 2066 | Lv LAWRENCE | 635 | Cross Colorado Riner, Cals | - Arizona hayndary | 1 | 17 Am | 2104 | Cross Kan.-Mo. Kan 3.104M Kan 4,254M Kan F4 50AW 2104 Cross Kan - Mo. boundary & 58M 684 Ar KINGMAN(MST) Ariz. 2 144M 781 2105 Ar RANSAS CITY MO 6 3DAM 772 Lv SELIGMAN Ariz. 3 524M 7N) 2105 Lv RANSAS CITY MO 6 3DAM 781 Lv ASH FORK Ariz. 4 254M 7N) 2105 Lv RANSAS CITY MO 6 3DAM 7N 2105 Lv CARROLLTON MO 739AM 7N 2105 Lv CARROLLTON MO 739AM 7N 2006 MINESTER COMMANDER CO and about 6748 824 Ar WILLIAMS For Grand Canyon Lv.
Williams 7.40 am., via
motor conch. Ar. Grand
Canyon 9.25 am.

Crass Arizona Duide

902 852 hr FLAGSTAFF Ariz clear board met. 2186 Cross Grand River 7 511554 857 2209 At MARCELINE Mo @8104W 2233 Cross Charifon River. inegular etrudi. une 5. 4.8 AM AND AND PLACE IN LA PLATA NO. A PLACE 2277 Cross N. Palous River | 9 11AM 889 . Cross Canyon Diable. B 23M8 4843 916 Lv WINSLOW. . . AHZ 6 50AB 22RR Cross Wyoconda River. 9 18MM 2305 Cross Des Mornes Burre 919 Cross Little Colorado Biver 8.53AM 5080 948 Ly HOLBROOK . . . Artz. \$7.19AM 1022 Cruss Ariz.-N.M. boundary 8.14AM stratus cloud, Mix-ouri-lows boundary Deyton I and I have after in the 6506 1043 Lv GALLUP ... N. Mox 8 38AM 523 2322 Ly FT. MADISON 10 10 000M 2323 Urnss Mississippi Witt Cross Continental Divide 9.07hh ... Cross Rio Puerco 10.27AM Lows-litimas boundary. 10 with 4785 1188 Ar BELEN N. Mex. 10 500M 755 2377 Ly GALESBURG ... Ht. 0 1059 For Albuquerque take motor coneh Lv. Belen 11,00 am., Ar Albuquerque 11.55 am.
Lv. Albuquerque 9.50 am., Ar. Belen 10,50 am., yia motor coneh to connect with Train 2. 2392 Crast Spiton River 11 1618 515 7425 Ly CHILLICOTHE III TLIS 2427 ... Cone Illinois River 11 1989 [2464] Cross Vermilian River / 1/22 625 2465 Ly STREATOR 111 12156 2502 . Cross Kankakee Kiver 549 2517 Lv JOLIE1 (1) 1 05 P 4785 1188 Lv BELEN N. Mex. 11.00AM 7531 Croza Dea Plaines Buer 1 2514 ... Cross Rio Grande 11 OGAM 192 ... Cross Rio Grande.... 11 05MM 2541 Cross Des Plaines River. 1 ... 2542 Cross Des Plaines River. 1 ... 2543 Cross Des Plaines River. 1 ... 2544 Cross Des Plaines River. 5952 1298 M VAUGHN

elelisa

oregolatin earlierd

chor chor the char

Ret

Lan

Lay

raft set

da

ala

Clear

tu,

HANDLING OF BAGGAGE for passengers traveling to San Francisco. The attendant in each chair car and porters of each Pullman will contact passengers traveling to San Francisco and place a check on hand luggage, giving you a stub. This checked luggage will be unloaded at Richmond and moved by truck direct to the Santa Fe passenger terminal in downtown San Francisco. It will be ready for you when you arrive at the terminal. This service has been arranged to avoid any delay or inconvenience in handling your luggage to San Francisco.

A WORD ABOUT SMOKING for chair car passengers. You'll note in the arm of your seat an ash tray for the convenience of smokers. We do not encourage smoking in chair cars and rely on the consideration of passengers to do what is best in their judgment of when to smoke and how often they should smoke. Each car is ventilated every three hours but this does not always overcome the objections that many passengers have to excessive smoking.

If you notice your neighboring passengers objecting, we suggest you do a limited amount of smoking in your seat and make an occasional visit to the lounge car where smoking is more acceptable to all passengers.

SCHEDULE OF THE SAN FRANCISCO CHIEF is printed for your convenience on the following pages of this folder.

At Clovis there is a short stop for leg stretching while train is being serviced. At other stops the schedule does not permit passengers to leave the train.

Thank you-happy traveling

rtelin Eil. Therbe More wordy wegetation exchange

Zetenos.



clast the work white

lan

المناك

1

wel

Mal

tras

na

Nan

21/5

this

HANDLING OF BAGGAGE for passengers traveling to San Francisco. The attendant in each chair car and porters of each Pullman will contact passengers traveling to San Francisco and place a check on hand luggage, giving you a stub. This checked luggage will be unloaded at Richmond and moved by truck direct to the Santa Fe passenger terminal in downtown San Francisco. It will be ready for you when you arrive at the terminal. This service has been arranged to avoid any delay or inconvenience in handling your luggage to San Francisco.

A WORD ABOUT SMOKING for chair car passengers. You'll note in the arm of your seat an ash tray for the convenience of smokers. We do not encourage smoking in chair cars and rely on the consideration of passengers to do what is best in their judgment of when to smoke and how often they should smoke. Each car is ventilated every three hours but this does not always overcome the objections that many passengers have to excessive smoking.

If you notice your neighboring passengers objecting, we suggest you do a limited amount of smoking in your seat and make an occasional visit to the lounge car where smoking is more acceptable to all passengers.

SCHEDULE OF THE SAN FRANCISCO CHIEF is printed for your convenience on the following pages of this folder.

At Clovis there is a short stop for leg stretching while train is being serviced. At other stops the schedule does not permit passengers to leave the train.

Thank you-happy traveling

Mov. 16 - Rachond truly danta Le (a. 7, 2, 5) write from Richmond along the riffer dan Francisco Bay & the Lan Francisco Bay & the Lan Francisco Bay &

grassy hills along completely dry and duty year from except for occasional scattered hand-leafed blants. Petelier of planted crealyfitus. frindelia in flower alone Tack Frenewlum vulgar u jew mall marsle in rances emptying into bay, some with faliennia, north, with Topha Some along the shore on flat low ground. In hells in flaces reattered darle green Baccharie peticlais. Kavines have Latin, guerry Genord Ringle up higher eville to left of route to constal ravines with take prest. otherwise dry grans a patches of both autumnal herbe Three woody gragation extrag

most of the roker one every een, doubtles both f. agrifolia and g. chrystelie represented as aspect californica lone juglans north show beyond turned at flent frame. covered by open vale forest. south slopes with years and valizadanny. some orchards and majord on bills but not in good shape Out of the hills directly noth of mt. Dirlo, are extensive marsher of here the on flats between round massy hills and frising Day. Some flat land not logienough to be morshy. and chemical works and the fractories. These around littobays. Bayond antioch wordy wingards and exchands. Rows of Encolyptus, grand somewhat rolling, sandy. some march locally i few vales very locally.

and Rever New Lan Jong in River rand areas of low intensively exiltivates land in truck crops. crossed by lange canals and thansely of the wiven sured by typhy hatelier of Salin, freat masses of floating fusing californics and Lichhornea evasuper. and the crops is achanges. idstroard in this area is considerable blowing dust west of Holt. South of Stockton flat cultivated land with scattered large querius lobata, bare or partially so at this Much snow visible is high sierras to the east. Welween Hughian and Denais, to east of trade, what appeare to be a vernal proof. (about 1/2016 min. before Denain). I minant agricultural types from Merced or veget Planada orchand my som menegards. around Variable lange acresque of begs, mostly trimmed down

to a dwarfied Mreading stature. Losath of Clarity the noute goes for a short distance through nothing grassland they mere dellarde, linge land after Le grand Kange areas of slightly dry falming foil and whiteethut and light Wooded blanki alongdy Sandy channels of Chowchills Kive. last areas of olling essentially treeless dry farmed land between Chowstilly and

fourth of Fres no the wanter is interlained with college with a rather declose south of it is rather declose savanna or open breat of the large oaks, either g, whata or g douglasis. I douglassis.

Frem Rivers more luxuriant

around Mondera.

willy winding shallow channels with strallow moter and scattered falix. tarther on orther similar aren with dry street he bacton vegetation nother than Histohlis. there are many be alleading generally the counting is farmed soils and generally of a light to be the puncipal weed. Want appear to the the old Twent Lake bed (72 min friend Wesen), is an extremely sparsely Isopulated arch, extendity for miles without a house much of it is cultivated but some seems to be in a sparse very that grass, with scattered Lalsola love snow in Tchackafi

Mrs. 17 - west of Williams frest with thin grass, some I saw with time ponders frest a few inches of anow. staff - when but more or less intimore stands of revall fines 3-5 m. tall, with thin goos and with scattered taller primes, 20-25 on tall to much enow that jet is hard to be sure if the small prines are P. ponderosa, but they probably are. The large opperang. This situation could arise from fire or from premned logging and management, is kelled from former bearing grazing. Cast of Flagstaff the prine forest is true varies, more open ground. some awas of scattered fine with abundent scellings in a few year it look much like that described above home to from talk, no tall with Then pringer juniper open schub frent ver Enge areas. a few inches of snow everywhere

ELCAPITAN

Tr. 18, Eastbound, $39\frac{1}{2}$ hrs. Los Angeles-Chicago Daily, All-Chair-Car Hi-Level Streamliner. Extra fare train.

Altitude	Mls.	Read Down	1	-	Alti-	Mls.	Read Down	-
13		Leave San Diego Train 79, 5,00 pm, arrive Los Angeles Union Station 7.35 pm.				1235	Ar LA JUNTA Colo	0.20.
318	0		8	. 00PM			Caddoa Dam	8.44P
	2	.Cross Los Angeles River	-	.OSPM	3603		Lv LAMAR Colo.	8.51P
35		Long Beach passengers for					Stops at Lamar to	2300
		El Capitan leave at 7.00 p.m., via motor coach for Pasadena.					receive passengers for Kansas City and beyond or South of Newton and	
830	9	Ly PASADENA Cal.	8	.30PM			to discharge passengers	
	21	. Cross San Gabriel River	8	. 5.9PM			from Albuquerque and beyond.	
860	31	Ly POMONA Cal.	9	07PM		1310	Cross Arkansas River	0.020
1077	60	Ly SAN BERNARDINO	9	37PM			Cross ColoKan, boundary	9.23P
3822	87	Cajon Pass between San Bernardino and San Ga- briel Mountains.	10	. 11PM	2830	1387	Ly GARDEN CITYKan Stops at Garden City	
	1/19	Cross Mojave River	10	. 55PM			to receive passengers for	
2105		Lv BARSTOWCal		35PM			Kansas City and beyond or South of Newton and	
476		Ar NEEDLES Cal		O7AM			to discharge passengers	
476		Ly NEEDLES (PST)Cal.	2	17 AM			from Albuquerque and beyond.	
,,,,		Leaving Needles turn watches AHEAD one hour.			2486	1437		11.15P
	326	. Cross Colorado River, CalifArizona boundary	9.	25 AM			At Dodge City turn watches AHEAD one hour.	
5242		LV SELIGMAN (MST). Ariz.		IIAM	2486	1437	Ly DODGE CITY (CST) Kan.	12.184
6748	-	Lv WILLIAMSAriz.		.26AM	2.400		Cross Arkansas River	12.50A
7313	- 10.0	Cross Arizona Divide.		06AM		1556	Cross Arkansas River	1.50A
6902	574	Lv FLAGSTAFF Ariz Cross Canyon Diablo.		57 AM	1530	1558	Lv HUTCHINSONKan	↑1 53A
4843		Lv WINSLOWAriz		05AM			Stops at Hutchinson	
1042		Cross Little Colorado River	-	OSAM			to receive passengers for	
		Cross Ariz N.M. boundary		- NA AM			Kansas and beyond or South of Newton and to	
6506		Lv GALLUP N.Mex Cross Continental Divide		52AM			discharge passengers from Albuquerque and beyond.	
7247	758	Cross Rio Puerco		69PM				0.00.
	878	Cross Rio Grande		OSPM		1591		2 30 v
4934	889			15PM	1443	1591 1775	.Cross KanMo. boundary	3 01 M
4934	889	Lv ALBUQUERQUE N.M	1	25 PM	781	1776		5 35M
5457	956	Ar LAMY 😂 N.Mex	2	30PM	781	1776		5 50 "
986	974	For Santa Fe and Land of Pueblos take motor coach					Cross Missouri River	8 100
		from Lamy 2.35 pm., ar-					Cross Grand River	7 / J D M
		rive Santa Fe 3.10 pm.				1903	Orono Ommitteen Italica	7 5,544
		Leave Santa Fe 1.45 pm.					Cross W. rabius River.	8 189
		via motor coach to con-					Cross Des Moines River	
		nect with the El Capitan at Lamy.					Missouri-lowa boundary	8 504
6457	956	Lv LAMY . S N. Mex	2	30°M	521	1992	Lv SHOPTON	9 2014
	991	Cross Pecos River	S	POPM	523	1994	Lv FT. MADISON Ia	9 25 14
	1020	Cross Gallinas River		OSPM.		1995	Cross Mississipp: River,	
6392		Ar LAS VEGASN. Mex.		05PM	756	2040	Iowa-Illinois boundary.	17 27 11
6392	1021	Lv LAS VEGAS N.Mex Passing through Rucky	4	08FM	/55	2049	Lv GALES BURG III Stops at Galesburg only	110154
,		Mountains—beautiful views of mountains.					to discharge passengers from Lamy, N. M. and	
6666	1131	Ar RATON N.Mex.	6	01PM			scheluled stops Albuquer- que and beyond.	
6666	1131	Lv RATON N.Mex.	6	04PM			que and beyond.	,
7588	1138	Cross New Mexico-Colo-	6	25PM			Cross Spoon River	10.80M
		rado boundary through Raton Tunnel, one-hali					Ar CHILLICOTHEIII.	*1100AN
		mile long and highest					Cross Illinois River Cross Vermilion River.	11.02AN
F 42 W 4		point on the Santa Fe.	-	0.4 044				*1140AN
5971 115	1153		-7	01PM			Cross Kankakee River	
		Stops at Trinidad only to receive passengers for					Lv JOLIETIII.	
		Kansas City and beyond					. Cross Des Plaines River .	
1.4		or South of Newton and discharge passengers from					. Cross Des Plaines River.	
		the state of the s					Ar CHICAGO (CST) III.	

receive passengers for scheduled stops Albuerquque and beyond.

Stops to discharge passengers from Los Angeles; also to receive passengers for scheduled stops Kansas City and beyond.

Indicates Raff-Auto Service available:

et platen of for and towns a hay ile The 2 2 m. + Gel south which Lush worled rhereix ed of the is a dwarf a steppe To 1 m. tal, 40.5, : some frades Bushes lovel red long ngly

01, 1 -2cit -vn t

and

Zin

anson

er-

1/n

1/10-1

1/22

everyou m



HERE'S HOW TO OPERATE YOUR CHAIR

A This trigger on arm controls back of seat. Pull up on trigger and push seat back to position desired. When seat is reclined pull up on trigger to bring back of

B Legrest pulls up and can be set to position desired. Notice that when you pull legrest to a position higher than level of seat it will drop down.

By turning legrest completely upside down you can make a crib of seat for small child.

C Button at inside top of each seat permits you to adjust top part of seat to position you find most There is a center arm that folds into back of seat

when not in use.

Reading lamp focused above each seat can be used as you desire.

We caution passengers not to stand or sit on leg rest of their seats as they will not support your weight and may cause injury.

PILLOWS are available from the news agent. He will be through the train to offer you a pillow, which can be purchased for 50c for your trip.

DRESSING ROOMS AND LAVATORIES are located on the lower level of each chair car. Also, there are lavatories on the upper level of the lounge car.

between Flagstaff, and Winslow the pringer junifer get smaller, petering but shortly after h way to Winster. I before this, whi bushes are still 2 m + tall is a vastava with of the track in which cularos ast of the end of the pringer surifier is a scribb savanna steppe with busher up to 1 m. tall, mortly-less than 0.5, possibly hurslies, some into steppe etically no busher lovelle of wind rounded sandstone seeningly the slightly rolling of covered plateau.

Still enst of the ter steppe cleanger to a tringly your weeks exactly tufts of chyanthan mue, and another type of ervain, remail low, mesa-like, sparely and renewantly distributed on the platear. They more duraff seril Just east of Window are considerable areas of Tamana scrub, mostly alling a broad wash which now has water in it. The lamerax har turned a burnt mange-brown in woon. anorthalit in the rolling platean is a morare of open simil and steppe. forally small grateties of sentlered colloword mined with the Tamarich. This morair continues to Holbrook and degred. Rocally Tamaria replaced along river by small topular Rast of Holbrook scattery small randston mesos and butter faither east ar asse

of small dune. - it's various measures taken by ataliclase trem clong tracks, including shruk plantings. mesas more conspicuous. Thou save generally, as more morey. eastward large a cased struly shoranny and divage starely savener, on rolling and slightly directed plateau country. at about anyone New-Mornies boundary the prevailing vigetation changes to another fruit or savanna of pruyonguriper. Stinly before falled or line of west-fracing red eliffer, locally out into beautiful nanow dones and pillars. almost bare of oregetation. Trutard Jullys Ill route follows a will cangen end in a sandeton platean. Scrub savanna in bottom, recattered Pinen porterosa son open tenyon-furifier on top.

of route gulling interesting ension features in red ravistance. Prevailing wegetation open send in walley bottom, ofen sent fold a savana of progon-jumps on menas and ridges. Still thin some over enjoything. Pinyon-jum per continus for a long distance sasterar but after woring features are passed it alternates my lange frat or gently rolling steppe. from disappears from all must high stopes near grants. Fava beds with open some, mally atifler, east of grants in broad valley cut in flat-lying sandstone bed, Those have pingen jurijes. West of Ris Pineres are wast plains to smill of track, almost shrubbery steppe. To noth of track low rolling lund steppe with reattered junifica

shrubs. Very little snow

16 1252 New Theries

Settern lands above
Storing merger and levers and insighted phologolus prest mean words and by user elsewhere their mean words and by user elsewhere their services process for fine gray brown gullied services for toward from river front of toward from river and fort of toward season were gentle, upper parts with open thiples, send worth of the pen thiples

The 19 - Flight from Lanta Fe to Clovis, N. M. 1200; st. side of plane. Mainly plateau country. The first part covered langely by open forest probably from a perhaps some pringen- juniper. Mo closed forest at all area, of very flat ground are bare or grassly. Eastward this great becomes sparse, areas of grass become larger and more prevalent. Every had features are

interesting. Frall remners of mea, amvelved in shape, some sheletonized by breadward erosin. This headward erosion is really a nather obvious proviers, as the cutting power of the water would be proportional to the slope down which it flowed. This can be orphied a explain many erosional features l'erhèfe there is a limit of steepners beryind which the cutting power lessens. oward Elevis the granland become the prevalent feature and trees become more and more restricted to escarpments and thegather slopes just above them. near cloves trees disappear altogether. I mall ponds, probably dry during most of the you, are scattered rather abundantly over there plains. becomes rapidly less rugged and near Cloves theil is almost no relig.

Vin 19 tas flight from Cloves n. Wh. 3 Tat Worth Teras. st. side of plane. East of Ervis and large areas of low fratially or entirely stabilized done, This under dultimation, seen, covered by a low many Un bush. In some of the more of view of these areas the dunes are well stabilized oneft In localized spots of activity, which show for spots where houter collects have trails radialing out from them. Her also there is a best of er wind everongetting started. Through the country both in the durer and elsewhere low shots are corning without relate. Most of them do not have any water in them. frems quite library that either gyprium deprosition, silting or compaction by alternate cracing my swelling could make

1958 Jun Mezica

the bottoms of such from very much more resistant to envisor than the surrounding area, of the where region ever embjected to refusenextund cultivating become more and may prevalent. Some of the more well leveloped of their fronts strould to studied. They are expecially stribling just werest of Lubbooks, Tames and do not seem to have been completely altered. There are and some, not so well preserved, east of tercity. Most of them han been plotted withsast and east the river and its tributaries have cut front naving with vertical rider. showing that aguveng time had already started. East of here the gullyong fremes music more privalent. The soil changes to a ned color and for almost the entry distance & abilen, bollowing the mothern of two organizating dry rivers, is a

wilderness of thin brush and intircate dendritic gully system. In the center of Tris is a ragged welry unoh. It would be of interest to examine this area floristically and to compare it with the grassland that may have existed her before the quillying took place. It would be important to figure out the sources of the present flow and to compare its explosions estransion with the contraction of the prairie flore that it replaced. also it should be of interest to find if any components were equally at home under both of These contracting sets of emditions. The brush seem to be mesquite, rather closely spaced but not trucking in most places mostly almost. bare at this season. Last of abilene the country becomes mue heavily wooded but mobally

still with mergute, though it is haid to tell from a large altitude. Inde become abundant but me mostly artificial. The country for a long way eastward from abilen is a much dissected from, with much of the frest portion under cultivation most of the inequelar area lovsely andoled of in grass with scattered trees and bushes. The total relief is not much and the error remnants are flat-topped. Eastward the trees change from decidences to very darly green evergreens. Cultivation becomer less and less common. Cattle trails are common. areas of acting evosing are common and of fair size Eastward a faily large meandering river crossed diagonally, The bluffs and mesas living its meander on coursed by open evergreen prost. This and decidences area east if it probably the igil Cross Timbers.

1958 7 eras. Maryland Mars - J - Flight Bt. watty to Wigh. Southeast of FX. Works and houldwer of Dallas !?? dange areas that seen To be plowed up in giganter funous as with i golddredger Weat in the? Alunners says best ame a visit Texas with Dallas is april or august last of Dallas - Karge areas of black soil intensively cultivated. are these black often soils Decidence trees wind some nowiner. Dec. 7 - flight Washington - New york 4:15 a.m left side of plane

24

Dec. 7 - flight Washington - New york 9.11: a. m. lift side of plane a highway parallel will it - many patches of pine world limber bounded both as substantial angular patches and as small grover scattered in the Mortheast of Baltimore there is no pine throw the toward to me a grace the total area is world. a few prine patches all angular with same pattern as nearly clearly related relds, then very tetle more streams noticeably entrembly entrembly thereof the form to grave and I buladelphia.

I buladelphia.

I buladelphia.

I buladelphia.

I buladelphia.

Thought - " thewild upon trug last To Prestruich worthand - 1:10 5 m I sid of plan Ortenomous area exit of devily covered by suldiving development with small horse. extensive area of salt-many unside and long show lan estand with a steel outer continuous lundloff and narrow beach. The celt marcher and streamently developed on white rand and have mostly been losely litched with branchel detelier, exprosing the sand course takes mount to sen rather som, so we men most of sing stand. They warred back northwar ver Kong beland, then east along its south sid: there are still considerable

26 1957 new york

areas of wood and swamp earlward, but very numerous subdivision some salt mark along estuaries. Frest seems It to a varying winter of decidences trees and give for the eastern part a lypicaldermed wast den with man, Volaped extuanes, of they zand asland, bor which ele. The frest is in general much out to wads, unally on on restangular trattern. the detalong show, but usland or the east har an astonishingly straight and straighty cut outer want and of rather wide beach. The inner want is very - megular and the sound as folled with patches of march and shifting sand island and bay. Is island gradually forms the mainland as the sound provides out han development out de the long penemula to Thortaul It but they so me rand of her broken

Enmulus clouds below with practicularly ragged appearance on to be like strudes cotton batteny. a nother duty and, yearne no lugh clouds some to but I multi a vague allo stytu. lever medilar constitu endestance, obtacle mot class becaused that the Marthan Vinegard morth observed a curious large lagon or nothered wines, suinounder Try of Astronomical as trans. It is the Variable (inegered ") Manting tet ! fairly large much open heath when any words. an astonistung curver bayor wine side with a cusped coat worded durain on east side and a cange lagon ware cut cliff on southeast one Capo God In month, most non intured to croud layer become entimene, mora ters here in with bout welly or collin balling the weighten and at more of less regular interval rounded humps resing above this surface which have a slight undefinite inserted voites , sweet esperience.

Dec 9 Flight Copenhagen-Frederic Soil around Copenhagen airport very black, mostly flowed, some will green your for fourthy

do - for eartured a mall along the area - intermely cultivated and green, he very curious books ertre and lake bed solidly wooded, surrounded by

a bar beach after famburg continuous low beds of clouds - glat-toped seemulus will stone firmer or sentines between claim at out halfor a thurd of the way not crossed a curious ratter sharp boundary, envery

somewhat I between while from - lovery clouds on one seds and less substantial grayone on the other storand I welly?

around Dureldon howel say soils, mostly instincted little green to be seen except - one partile of confer woods, -Little thin grass from fran sized andar of woods and wither frene dendurm or jun courts.

30 158 funtra land bogger and To summit of min a thindesty looking Lever - transformed forg with mountain stable up through it. fouth of summit ridge of fren and in it, higher walleys a fed of dense clouds. Topo of June dusted with anow bed freed. mounney plantiful in seell side of mountains Intimo him showing about cloudly between jurch and Jeneva Landy wooded, but some cleanings of medown en tops one back gray cliftes of magnificent sys Intlivalley about hay way from Junel T genera gormallava of words, mostly compen but paid deciduous, were by is. Other similar greas not. The entry Klun 1 1. High alfor is with mostly some covered, · No mow on western June, at least not writte from with oward genera ter on trees on wooded will in valley bottom, even in three -on flat ground furt a little snow dusted over ground to mall of wals

Oman 31 Benera & Rome at high sum miniterery traver linger meadownsany en their summits and artifier alops. around genera fully and alightly trees, some auto so From a lugh actitude 6-7 an visible paulal, broken by the grifes of the Rhone & villey! eand between genera and the ligher alfred is cultivated a particled. It if slother woods Jone will toler provident with any Carred Mant Blane, protending above the clouds, completely white another great, almost as brigh just south of it. forthern rada alfre extract great mon field only differ and of more tation stopes with rather little sun thinky worked in most parts. Virility Nec 11 Beint & Karachy mostly in weight 12000 inglands filan. Oman at a just north of She The west side is a wast

foher

plain of oriented dunes, with spatches of Placences analisa between them beg and there expressally inland nother rigitation and on the otherwise pale ranger plain Well island are extremely rugged much mountains, a dull pale christate from ingother In a deep valley in the Galf draining is a form sized orasis with Throwing dastylefora. in the deep canyons with east ut voite can be seen occasioned ly, with a few mall vare, In some of the stap ranne a bit of gray-queen vegetation can be soon. nothing in ridges of alster. In wastal plain this side is narrow, but they is a small oasis with a small town, very bleaks looking. The might we love -but looks very small implie cated series of constr pastocks near but not invasis vasu leas other greats as well as showing, but cant make out what they are Jew or me Phoenia unabies on this is side of mountains. a little out from the ward bloom justorning the ward

The coast of fram near Chabar, seen from a short distance put at sea is indescribably James. It is a dell cream color, like and sand rather flat with almost no vegetation. Two small varies on the penemula east of the bay where habar is located Chalagreen Trying one of them. The low mountains vach of the crail Cook just as farren on the coast casterard one you strugt base hills o leffer very near the coast,

The mouth of the Jashis Rives as in of a chester of stream mouths on the transwest of Ras fewers the country is interestly desolate, but must have had rain furt nevertly as The streams have water and each tras a plum of self in the sea villaids at a mouth. It peninsula and of and indiminating in Ras fewers bras low rugged hills and compressions eliffs brash of a marrow trung completely barren the waste waste flat.

his seems to be a suspect coast the cusps very prominent hooking eastward, but somewhat clevated and the tipe may to Trumcate tarachi - lidal flats west were mouth on auf how apparently a low semi-open mangrow soul on me stable patches, bas mud in other parts. fame east of river but above the mouth busher her mostly low gray ones, some tallingrees ones. Tidal flats on court to east mostly bare. - lat desert east of Enach; will inequelarly scallered darli gran freen small trees a large busher and more abundant smaller grag bushes. Enomous expanses of mostly regetated tidal flat extending with in the value delta, " slotroffis common locally m. 2. of airfut. Capparis! very areas of this low dry gran arrived airport. Impated field bright green. month I sent on therenen

conthein in the wide water eraves dort purplish green alow, deep people, benedly flower white dolled with jewyle arrive throat, Leve upperlate entigues and somewhat velipping literal spreading, love narrower and somewhat bent fravail religibles another pertile opan your, gray and while benegated leaves but my The working from of I rece gulfogles, along with which bordered leaves This a money variegated from which looks as remember 1- pinnata a clook. Verhaps Coulfoyler would a form of Vigningta al stiril. Between Karachi and The airport is a profoundly disturbed landscape attle trail innumerable. Kirachi- Calcutta Phoenia and ther tree around iniqued areas mares delta extende with as for dy winen hermids or such a hazy day - she dwarf mangrove regelation? Emspirons dendrates gully systems without mod studius there we seen

John fait of della senot backing in vegetation almost correlations full have northwest of Indres is or desert Gandrage locally empletely bar, locally downated fy struct and 19,1 small trees Edigo square were of greened black water arrested Lands to earl of it, but none area appear alleating harnels and bottom land of Judies - bottom-land modly worded, own granland and savanno. frest sand flats along channel itself. " init of channel alternating cultivation and wordy ortgetation, form a las eppear to be sand and support a spare -vegetation. This moradie continues for son distance, Up cultivated land, cut up anto small megularly estaments glots by lever becoming more and more humanest eastward to another meandering hannel your glots in eastern partially fame pattern east of the chains for a sfirst distance, then offen desert with varying concentration of bushes welly none, locally small inguted areas

July of Cutch track with irrigated land from low wether whom more from it also inigated. Forme or read apparently wallratine and marting for agriculture 10 have evidently been it one ame a another under cultivates judging from lever and detales. forthe areas one very black, crave inequelar patches of marsher has told dried - une i manden with untweate patterns the actual cleannels mostly regulated, crescent shaped andre between them with waved density of matural realitation all thelins will of the gulf of Cittely Contared a mentral leta voiled some of broken parallel ridge - humany m. r - 2 w - of rough - disserted plain but the problem difficult to understand. you and there plays takes, more In and bas, aumounted to scattered trees Jeneral bushes. Alered bottom areas

pasture areas and in the will between the son the will between the son the remaining the son t

running through ilmadebal.

same faller of cultivated

38 1948 Cordin

has twenty to a appear & boots prove trees cultivates. This extende title bariation. Southeast of war extension of the gulf of while mostly raid fall some clots, water in center. northwart of this are wort Ausmist gray blats almost a grande bare of we statum. - places they war tracks was then, not grute extendence to edge of flats I would fram of alluvial material activit and me then feats from raving months porth of eastward extension of this is frat land olivided into Theoto in mus or stone walls, probably isstanated during with season The survey a marine destroy jointed low mountain of reddish granche by your Frattern east west offered onstry desert vegetation. worthing much lower man of Une castrand in 11 11 11 11 more cultivated land and a mall rollage. Then more of the extension of absolutely Law plays flats, surrounding.

mulaty lake with saltrements

Hard even to be some that the

iales lass water in it

scattered villages each will, a pastur alea this more repolled than farther week andrease green but still only with a lings of green all of the aplain with very little relief. for undulating orthing velges, brending southeast perelle decome notional eastward, probably stabilized. dune ridges Then patring of welly brills outerspring from the between them fells semi words your or any year Valleys cultivated, with sandy. transfer channels strandy. tills more numbers, volley nanower, everything greener. eastward worthy the most spor of the Vandlya Range from his the country regenerally musith right with uneven of in words rend inderes synthe soully a somewhat my re-Mits berow mere dansely worded, sidges stronger reddist, redimentary, historium and cultivation only in man galley was almost but Bracheally me felat land.

many laker o reservory seen, esperially in distance is south, a few along course send of indops change In Mas. - a. e. becomes a but less rugged, much den wooded! Cenenportent alream o more mounding southeastward and much flat cultivates land along it. Hills almost disappear the harbale to when it terms now bubblefore tills still along course but plains along when It soull must be nerbola, is it scallels come for some distance to routh cake common in its plain. Hozegetting bad, would sunsel visibility from Vegetation from eastward, probable because foregraying natherlan climate Hillsdisaffran along course and to south devan from were country seems sprandy settled but still very forely vegetated. hin some scaller low bells with their woods Country gradually tilly in belts riending with swith,

sactional to south franch, of how hive with the this too hard for visibility.

Dec 10 - Hangbert to Ujukaita unterest wait of malaye-Though of a large meanderry were with meander pattern throughout coasted glain. ourgely mosais of nubber plantations evenuel plantations and areas of graddy fields my forest patcher would half of your area back from wast is in rice is various stages from given to hom. farther inland a large areas of neether mostly green. also some inundates tand and swamp. Then mountains which are densely frested many clouds, visibility non. rossed another broad valley with a nive running. anlegast with considerable rice, arms nutber 17. some examp ben hells with dense fruit. from free on mostly cloudy ant occurrent holes showing bulliand mountains old thinky worded meso

munerous strans. iller a considerable distance another river They reddish sandy ded, some rice in the navey valley bottom then freeded hills, very loudy. "han less clouds, a whigh of small shills were introde, solid uniform non friest his mes a large area. efter a considerable distance a large meandering river and valley system running southerst, much rubber and nie in the broad flat bottom. This enters the sea with another toming from the west, and there are large swamp areas near the mouth along the coast a spectacular sever of beach ridges and an old strove time of white sand back of a cultivated cincles meandering river of black water, and several black water lagrow and inlets in this cultivated Mr. Coastal fream with white sand and recipil red sand redges, a large mildy

etterany o lagron then - mais swamp, long-strone channels, some of en grassland fandy beach. Evant trende augusty westward, The sacra the is very muddy and of I greenish hear soup who. I was complicated wasted year all along her west visit-ility from the green En of the see is more and more conspicuous, almost a gran green. brase never seen anything like the. Extende a long distance from shore, water obviously very shallow notton unbo as great parallel ridges or undulations could this be turtle gran? I ree, the whole wight of the - onllar east coast! another large river estuary with very complicated channels fravalleling is and approaching store again, very muddy, another targe rive wouth, extremely muddy Truck we in its velly. fouth of it a large lake with morny islands of swamp frust. my bright island offshoot appears gramma covered by dry sunt except for trees away

alon. Much cultivated land and a settlement in evastal Julian. Vast front on flat to rolling a low billy ground inland. a road culling through the fact, running Hood north northwest. foutlines many dearing in the frost, mostly grassy. im cleaning in program. then much rubbe land with swamps along streams theore very from at this was or area of bedge style planting I mitted. Many cleanings doil where expressed seems to be a white rand, at least m many places. her large lilly freited area, extending wintrohay in a rant distance, Keling rather slight then many cleanings with lalang, large valley almost all more or less cleared and in belula and many young reliber plantations in wast again, with a large river running - nto it, som cleaning in this valley. More old fearl ridges around on trescent thaped bay water

grea green. Ilong south paid of fran frest comes almost to beach. Black water streamer coming out of it with middly bay Thiring conspicultures. Plane made right angle turn westered we slat front land with some old cleanings yourst becomes very pens texture as we approved a great lagron or estuary I cantation immediately arrung estuary, with roads. Considerably mangrot swamps approaching Johne Atract and singular sland. Complicated grattern of nubber plantation, belulia, gran forest swamp between estuary and strait, much new rubber plantation of ingapor Island - mostly mighting of houses and trees. great red sears. Water require front, some amall ste rubber plantations. Turned south again angle islands is west withy straits, mostly low and worked. bouthward a maye of sslands-tim nes throlly

or grassy with trais along allre. Forger ner worded but with degraded priesta belultar and much kavanna Transporterwanter along will. istuaries very complicated. Relieblow of tilly relief. foullward Up islets become imaller and spainty surrounded by darked wed major Lunalra on listance ! wer, a penensula fending east and southerd - would appose to the another qualf of small whante. Ineven fact, partly cleared If some Cine, where or least regrown rolly rather offer some plantation ? , no briefle babitations hangter and satellite islands Lea very green in vicinity. Islands largely -worded but with many clearing lalang, suvanny, belukar, inar inequilar mountaines Mountaines central and southern part still has an undisturbed front apparently somesmell

tin unbungger south, side parge burned areas on south orast a large roughly ander area of slea is a dull distry green ever in contrast & the blue- green around it. Bounded by a scalloped dine of white - fram becken; not at all clear what the on from 15 evo - forme patelier of blown with of the fumatia in distance. The above dull green water evidently menly a different water man. Here are three of different colors sterrecting, not mixing readily. But There not outlined in white. Most grass-gille sea. becoming lighter and more pea green southward This green are probably menly ducty different depths of water, but have a deller, more ofreigne appearance than I am accustomed to. family become of greater self content of plantiton content good Large island morthy brand Encloude worthy cleaned word roads, glantations. approaching south fundia

blo very mudder Boad low. Demost untire island under clouds. Kensser of interne years denie forest. form cleared and along a small stream, everal house, and cleaning oright green perhaps laking. sime paths visible Ther more forest, vait areas. Little in me which hoster touden. wit very mixed some trees lighter white has a vinge avery morth engling will only four reallers - mergent, then emergent bearns at undant, Thin close to from constry. I few trees trace, a few in young Atmo large rounded clear thou longly gran near a etach meandring straw. somblack areas in a seen suggest that cleanings may be should have a cong this stream, contlinand, are obviously man-made lange in vour malages of regrowth. also its front betomes more of in home patcher of surange Out gran very green forthand I should low, world The local very light wholed trees.

1958 Java - Trip to Tyrbodos Dec. 16 - Between Tyran and Tuger Tenaced nice with bambos bavaras, mingo, other tree crops, much Manihot, Carica, etc. 74 nice in all stages from planting to hardest. Replanted immediately. Many onementale Some Cyalliber and other will plants on novine wells. above Tingu same petter along roads. Ten plants trons on slopes. Little shade. Dark brown soil, 1-2 m. deep. Tea harget 1-1.5 m. Forest in toper of some to hills. Rice + willings complex drops out very room often tregu. Puntjak Pass - 6 peter (6) tea plantations with very littleshad. Love with a

gray appearance because they

tea drys out soon and is

+ goods complex.

are trimmed back very directically

on other side of pass the

replaced by nice; monder

Tibodas From 4500 my a town montane nam forest trees widely spaced, campy inequelar and rather open, emergents to at least 40 m. altingia, Cartanopsis, Moanen, no noticeable atratification but show large asplenium midus and other egiplytes common, thin but continuous mos com. Unde growth layer to 415 m. Pinanga Buhli, Calamus, Plectotomia, - very inegular beens and warions harbs wells mossy. Photos 5 how. 3 hod. at 4850. at 5000 large Vodocarpus

at 5000' large Poolocarpus
imbricaria como in as
emergento
Person demos viscoso
Throughout this great
liaras are present but
not in great abundance.
At 5500' 5 photos +100
Her tallest trees perhaps 30-35 m.

Just below waterfall is an area where the frient has been destroyed by the atefall mud flow during an emption I year ago, a faw scrubby trees survived. but most are dead In one place where a section of this mudflow is extrag it is about a meter than and looks like glacied we. Shrubby vegetation has come in sparsely excluding Vaccinium, leptorpermum. etc. Mertera is commo. nepenther seen. Lorne care apparently backens, though the branchets do not disacticulate propely.

labelle typed Dec. 14 - above Tjibodas. in rather open lower montan rain great 1900 - The second second 39612 Nephrologies abundant on tree trunks 53 Podocaques imbiesta Bl. 54 Drymania decasional along treit in common in the tunto 50 Urner common on tweeys of emergenthese 12 57 Ophingloseum very local between rocks of trai 1/2 58 Kasianthus occasional in undergrowth along trail 59 (Celastr.) rare along trail 40 nertera granadena (41) Druce rare on money with 61 Ophionhiza 12 comming of stones along hail 67 Opherships rare aling trav Dec. 16 Below Tjibodas Waterfall destroyen tower montany freet almost sympletely

destroyed by med-flow

zyean ago, very open

the thirty fronts pendent. very tell emergent tree (twigs picked up from grown)

Chicked from ground

3-4 m. long

fruth black roben rife.

prostrate, flowers
yellow-green, fruit
translucent vermillin.

stem green, plowers white.

55% 1492 m

Dec. 18 - Trup Bogon to Udjung Kulon by but boat. Round Boga is a pattern of drongard garden cultivater and terraced rice. Lower down, toward Djakarta on flatter ground, are some small nibber plantations and even some pasterie, but still mainly gardens and In the gardens are Cocos, musa, Citrus, fall buit bamboo, manias manys, planet, sweet potato Cailra, Piper bothe, guara areca Carried Phrenis dactylifera (1), tamarins, Muntingia anasardium Ornamentals: acelypho amentacion. alocaria macronaiga Latropha crucas Caron hybr. Coleus of. Delovix regia Caesalpinia foulthering Dieffrentraction maculate Cathlananthus Charetia generana thomps crecta Sambuers of. Hobiseus telegreus Officialia sepina allemanda Mendlismii Cooliasum managatum

Loucaena glavica Jophnynanthe well sefully candida Thunbergia erector Tobernaementara comania Hibiacus bybud. nerium oleande Filicium? Aamonea Lawrey Casuana wegainvilles 1914 Redilanthus tithymaloides ingthroughon creg Clerodendum thomasac aventoa bilimli Gerbern gamesonii Tageles folidage of. Malvariseus Cupressing Clumeria oblina I dumena mila Caladium birder Polyecia scutellaria feindapper anera Eighterina af. Chrysalidocarpus latercens Hymerocallis litteralis Hiliscus schizopetalus Pisonia albo Duranta repens antigonon leptopus objects quilfopli assifters quadrangular Mangifing indies

Pelenit legia

Antocompus beterophyllere

Rosstones reging

Fileres benjaming

Muntingia calabana

Thomating perumana

Tamarindur indiens

Casarindur indiens

Casarindur indiens

Casarino etc.

Casarino etc.

along canal west of Djakarta

horrored trecta very common.

fatropha grandiforia occasions

(widespied in Java, acc. Kosterna)

Sesbania grandiflore occ

(flo. eaten, use Kosterna)

Janogarang-enmour marker.

Limitaria along road

Sweitenia macrophy ila

Cossia siagnea

Cosas muifero

Herea eraschens (small

plantation)

fantana camara and and anaras comme comme comme comme comme comme comme comme matterylon swamps. Hibisom macro phylles Rice is cult bee but

tyromeans as abundantly as in sprost places are have seen. Cassava and pasture and village share ground with nier: The same large open areas of nice. Streams very muldy, Ame nother rolling ofen area. apparently biron sail. Longe uncultivated areas, with low serve some parts in rice and reste. Level of Melastoma, tagraca dantana, etc. Then almost solid rue, some metrosyten swamps. Leaves resed for thatch, turners very little weet for storely (acr. Kostermens). Trunks, reach 4 m. light gray when dry when Throughout this part of Java the wer is breaded

and the bong well of

rodollily.

francistes are dried in the

Serang-much more offen, lare crowded town them good. Earge tamains trass. Turn withward. Commits aboundard. Mangres + vidras. April areas of the Imperata. Thispets with gleichtnia.

Volcano to right - stillbar
some patcher of forest
on higher and rangher traits.
Parts of slopes grassy
with only scattered trees.
Turn westward.
Janden complete.

The typical complex of trees, gardens, house, etc. from Bogn to Djakarta and to Pandeglang is dominated by mange pah-fruit and comment. at Pandeglang it change and is a complex of comment and gnetium. This is the pattern to faire where Green becomes dominant and along the coast from a pure stand (photos).

and cleaned of laborary and the secondary from the rest of the way to the read of the rest of the way to have a small intendent to have relatively under turbed from the

Krahatay can be sely to the n. w. rather too for to distinguish surface features! ling Krahatan like alamagan. There bits of Oid Krahatan to right. lone explosive activity from the sea (?) to right of base of ana K. columna bunets either white or black, every few minutes, vising higher than and K. another double come more to the right is not part of Krahatan group. Gestarned by low islands. these appearing practically undisturbed, Dec. 19 - Pular Pentjang welang fringe of tophera tomentors to 3 (4) m, tall, asplaced here endthey by Viter y. and with a little fearner. this fringe is backed by a wall of Colophyllum insphyllum, with occasional Hermandia, etc. Truneforting name in the fringe. The Calophyllum wall is several trees belt of Ficus and other species. I han a wide mixed frest.

The soil is black, out futher inward got lighter. the mixed front tras trees to some talf, the very large mes nother widely scattered, mostly buttiesed, and sizes make a less regularly graded down to about , inch in diameter. then very few sapley between die size and tha fort nestall.

This stretches over a

considerable flat.

The sort in so compact that water has evidently stood mit. The yohindleyer of acedlings is very sparse, admost no larbo

then an elevated terrace about 15 m. with a much thicken gorest generally smaller trees, many more lianas. The fla here is far richer and there is a more noticeable ground layer, still largely of seedlings. Some germ, Out these knostly on faller tree trunks, where there un characteristic communities of syedlings and berns. In one place a very large tree had fallen, benoching down several others, which in turn knocked down others, making a swally well over 100 m. long. This limestone Terrace is rather compacted or weathers and silted up, to there is some gully arosion and water trickling over impervious layers in the Cottoms of ravines.

at beginning of cuffs on west side is an anded terrais probably 6' with curry rimmed banns, and a series of extrosal beachnoch, enjoyed -by-removal of terrace 18 freeds diffing landward (hotos born, a hou.) fruit isle may pemping on me and . (photos) beach beyond the terrans being met back, but then is a gravel ridge in places very warre. In regitation here and just touch is a tall fourt of large borning this and coast this stommen test in sandy pleases their may to alophy um. Pardanus thickets her and there, Vitectorius Tragrans seen once here, on rocky material. Back of the tour of the beach ridge the brest is largely Barringtone, out with considerable Hernandia and Chrosia. Focally but abundantly or thick shrub to safeling sized lower story

of andisia and aglaia, with recasional young Barringtonia. Fre Whichets of landamis mixed with this, However, in most places one can walk freely. tallen trees from the worst obstruction The ground is mostly pebbles and cololles, in places manes of boulder. the beach ridge has ent off areas of lowlying ground that support a stand of furnitzen racemora growing to a height of 10-12 m, with abundant precunatopheres. along the graves ridge are realtered Perophis and Trunefortia trees, much tess awardant than the Pandanus. Hobersey tickney is fairly common, The pena much tess so. allophylus o ceasional to common. most of they species grow out over We water, making the beach difficult.

The flat land back of the sandy beach has no significant mumber of boulders. Some exposure of what may be andy platform near the beach. But on the other side of the island, the narrows flat zone there has great marces of boulders and rubble, presumably thrown up by the 1883 tidal wave from kraketan. Likewise, on the flat wond the engthwest site when the bridge is of gravel, there is much gravelly and bouldary mobile back on the flat. The tida wang to must have winder around the end of the island and freched up insiderable material and carried it inland. from the channel to vegetation of the men looks of remarkation uniform breight in it the doublinest come reached. Then it becomes very inequal.

The sandy beach generally supports a good forest of Calophyllun, frontes by a fringe of tophore with occasional patches Pandens Francisco The gravelly beach ridge supports principally Hernandia & Barringtonia. with some Ochrosia. along the front are occasions bushes or small trees of Comphis, allophyllers quettale Tournessation etc. no herbaceous growth except on sandy beacher where there has been eisturbance, when me sees pornoca per-capias. Stacky tarphata jamaicane Thomalea, etc.

Dac 18 - algung Kulm Keseur. across from Vulan Perliany. Laranel Breach ridge, back of which is a severy of Mypa and Americation alla? Mysa abundantly flowering. Buds are distinctly warm when general to cheels. The tight of the leaflets bear long filaments, connected along the mangins at the price matoplanes of This sommeration are more narrowly conico than those of S. careolius. Back of the Nypa wamp is a strip of rathan swamp, with veries trees britan abundant understony of ratten. Back of this a frakm firest, terenga, Oncosperma, etc. along a small steen. Back of this two leave cleanings with grass, various secondary weed and showle species and scattered treas. In one frasting was a bend of 9-10 bantang. In the other, 4 sampon deer one hand of 7

y. Hernbills flew over y jaking! which the " Jungle towl. Many flying fores the finneraling trees.

Nec. 19 - Cape day on Lavas Erste (hent) Rochs at ultimate point bare - probably I whianite but stained black by algae. One small abrupt well with some this grassy regelation. Back of bas noch in mainland low serul and grass my rais, undoubteday maintained thus by bantang grazing, probably Buck of this is low sembly frest, rather tangled this giving way to higher frest back toward landing.

Dec. 18 - Julan Pentjang (island) off of using kulon, Dense wet frest in and limeston substratum. lourneforting organica L.F. occasional to nave in secul at top of beach. 70 Vitex common forming fringe it west sandy beach 11 thombrea per-copie L. common locally on rand in disturbed places at top of beach 12 senevola solice rare at top so bearly 73 sephora Tomentora L. dominant in fringe at to bot sandy belock 74 Hibisers tileaceus L. common medges of frest get sol of beach 75 Cassytha filiforms common breatly at Top Theady parasitie in Loperon tomentosa. same, whored story beach 76 Parringtonia asiatica dominant in firest on story ground back of beach 77 Hernandig sonna L. coolsvinant will Bravington on story groundat top of boal

should rim tall, leaver fleshy, frosty green, plowers white, fruit not mature should 3-4 m. tall; flowers lavender prostrate, branches exect.

should 2 m. tall (other seen to 3-4 m.); flowers white.

should 3-4 m. tall,

flowers bright yellow,

semi-scandant tree;

flowers bright yellow.

tunspened at 6 g.m.)

stems soft, green; flowers

white

large tree.

large tree, finit inflites, mobile of envelope the

78 1758 Jara 39673 Ochrosia oppositifolia Lam. or 79 allophylus colobe Be. command top of beach 80 Premna obtusifolia R. Dr. occasional at top of beach 81 Camphis aciduly Frot. occasional at top of beach 82 Emphorbig Chaminsonis vin 8) Even at top of bad. occasional at top of beach 34 quettardaspecional. occasional at top of beach 35 andisig (humilis?) abundant in frest just back of beach 86 Jana? tops of the clifts 87 aglain eleagnoider Bert. 78 Frombristylis cymon R.B. abundant at top of clift. same inland in elevated livety 89 Tabernal montang 90 Croton undergrowth rare in rendergrowth direction on faller tres trunts

Dec. 19 - Cape Lujar edge of frest back of beach Leea sambueifolia! common in tendergrown; or andig mysea b. common sincleared wadway. 03 Pyroxing lanceolate common tree trunks 04 Hedyotis albido-puntate (men) 706. ? corning in grassy clearly area, grazed by wild oven. open areas on wells alone sea shore or yomoea litterales 13%. occasional 06 Cypens 12 local in with crevery 07 Phyllanthus 12 local in were ereview and weedy places. Eschaemun muticum ! very common in grassy og Justicia grazed by wild son. local just back of

84 1950 Java 397 11 (avren) rank in weedy place it fort of cliff. 1) backaevour y intermedius !) abundant on elift of 13 Fimbristylis cygnosa R.B. common on elift of volcanic tuff. joysia common on clift of volcanic try Hedystis albido- puncteta: continue in crevies of diff of vylsami tuff 3 & filles (come mays 7. septices but does not have ribbed (mit) common don enger of thickets just back of 17 andisia (municis) 13 common in thickets quat backer store. 18 Randia ranches gust back of shore.

erest.

branched at base.

loosely tufter.

forming loose met,
ending breet from
prostrate branes
leaves very fleshing;
brolla white lobes

patent tube globose.

large shrub; figs
prech depressed ylodos,
lefinitely not ribbed.

fruiting branchlet, actually to main stems but not stately flowers dull-magenta purple, fruits inmature event showly a mitted through a scort lovely of event flowers in flowers dull gellow.

Die !- - Value Handenbeum Perplinantula grad stand on small eval gravel. feedlings on gravel Densath. quettanda speciosa Hibiscustiliaceus Therpesia populnia Resmodius umfallatur Lugaria mirora Cassytha filiformis humin andisia (humilis?) Centang camang agratic Kremna obtusifolis Wedelia biflia Wavallia solida acrostichum aureum Crycas cincinalis fandanus tectorius speris tyrials burn (n Paretta) they sampuerfoles manggerer indies Frees gebbora Mephrolepis himstals Hedyotis bylong Macaranga Lanarino Buddlin importors 1) uchanania floribunda alrehidion

Cuba pentandra Leucaina glaving annova muricata sidium guayava Musa Sapitation Carina propaya Reperoma petucida acalypha india teris cretica! anavas comozin ageratum congraido Sporobolus diander? Enapostes amabilis Riper advincing Reccharum sportaneum mounda citrifolia Scarola serice Fimbristylis comora Eupatorium 900 gmeling Lolanthus on. Enphorbig hinta Chrysopogon aciculatus Stackytuplets jamaicansis Ficus septices Kademacheng gigantes Hernandia acca palmata Glumea balsamen ? I want your Oberonia albenopris amabili athorha guncas

Sonneration entsig bayinga goods numper Empetin bulsamore fulfation varieta Rigitaria x m Celbria argentes from rot Mirabilis galays warry sulfures Dony they cancelets? Khizophora apiculate Frested for border, morely strand species. Cultivates. ones around houses. They by a describ about 1.13 m high of Lantana camana, fall green in color, but flowering and occasionally fruiting, some blumes here, scattered ardising. Intly interior somewhat surrounded by the server, are several exposures of feo, with thick woods of Buchanania, Rademachen. skochedian Franseptus 4. jestora, mounda citufolia

Other small uslands targely mangrove cheropshina a round edges formerating in interior, Camplianon gravel barby. Onthermainland is a broad flat, withan. extensive pasture, mostly in Christofm accoulaters, with clumps of Lantana, Eupatourn, andisia, guan a cattered dagerstremis tres and Conglina Herdofover a dozen bantang and about a dozen deer. Mantany & colors, Mull frown and ned- hom. Perhaps sex difference?

90 1958 Jang Dec. 19 Tendong Kalund 39719 Desmos cochunchinensis 2 in so thicket at edge of pastur 21 Findristylis cymose Its of sandy Beach, offer. Dec. 19 Pulan Handenleung is Low coral islet. on small gravel just inside beauty 2) Vemphis acidula dominant in farest of inall gravel flat just 2 ly huarey small pratches i famphis frest not for from bead Blumea scrub in very thin sort 74 Bridelia occasional in front of Hochidian I common in frest and freit edges.

Dec 70 - Kratratay Holcano Krakatan). Verleten ? Lang). and anal Krakatan. (leben) in lackground) (photos) The three older krahatan Islands are arranged like many and indeed would be very much like it except That Kralsatay itself is so much higher. anala Krahatan is in a state of continuous pulsaly activity, with an explosion every few minutes, throwing ash to considerable heights. There is a large crater and smooth ash slopes, dark trown in cotor down to low wave cut clifts, except at me end where The slope and at beach level apparently some coral delris has been cast up has as the Toy of the beach is light wheel, How a small patch of Carramas have reached tree size. a few are scattered. but only 3 a 4 in number. The three outer islands are well wooded except on the steepest clifts, which are mostly grang

but locally completely bare. The material of these, where exposed. is very light created and bedded. The bedding is in places inequal probably because of slumping. The frest on Krahaten is luxuriant to the top. Casuaring is an impolant component, mostly in patches Terminalia cataphy is perhaps the most important in terms of area, covering However there are a good many species and the forest is generally a dense mixed freed. no grass now except in the steel unner wall.

Dies. 21 - Kenz Tring Harger - Bandery wint to wood Bandung nice bestinged and attom notted and any orphrates into soil. Elsewhere observed and ash incorporated. Here are constituous areas of a countrary with winderstory 1 6 barrana. then tage very flat analyticky devoter to me. Simestry out crops. Old and reefs. Either un Id lake bed a unland acc. Sinsatone mts. almost completely deforested. Veg. of Fercaena and faccharun spontanorum, etc. Infestation of Orycles or cocounts at Polchelarung w. of Dandung.

Bandwag - Suraedang.

Farge plain old lake bed

surrounded by mountains,
all in rice, except around willegs.

Where road goes thaways mountains

is a deep winding garge

with traces of great on its

walls.

6 km. beyond Tjirmalaka
photos of rice landscape of limiter

Farther on are roanger of limiter

trells and peaks. The lower slope
of there are covered by planted teaks

forest. Leads said to have been introduced \$ 1000 years ago. Bandof herieteria maciophylle Manted reach teals for fine control. acacco aurienbajan blanted on very degraded soils. Their soils un limestone region are called marl soils. Minule Hills - very steel and rugged limestries, entirely defrerested, covered by Imperate. which is not very lucusiant Tyinebon Plain - secondary regetation of fenerous and waite spits is largely bambon. East of Girelm along the coast Borassur appears. Inthis plan mostly me is cultivated, but some sugar cano. Near const, waste effet dominated by ferealra glavea, but them are few waste spots. Roads lined with Tamasindus, a few km. east openting atrhean along roadside. Large aren of tradely land fallow and grazed by water buffalo. Low liding tolowed and planted. about gebangilis Onyder damage to coconds confidences.

- 1.
- *
- A CO. ...
- Le to
- 14 P 11
- •
- 4 1) ---
- -
- Y 11 1
- 1.19
- 55. DEL . L.
- The state of
- Dr. Sursannia at ...
- and the state of t
- The section of the section
- N's million mall

- Tar Tilliam alla
- and the little lates
- AT HERMAN
- 44 70 May 150
- NA TERROLE FOR
- . (110.00 1000
- C. DINKING C.
- a Companies who
 - •
- In. The street
- The second of
- 7 . 4 4
- Market meterile of.
- 18. 411 V
- 14. 1 6/175 /6.
- L. Datting on the

- Land -
- D. Cott Bigs 10.
- The latest the same
- The All Phillips and Control of the
- The Middle Con-
- THE RESTRICTION OF REAL PROPERTY.
- The restriction of the Land
- 35: Hilleria Alle
- No. at Lange 1 and
- The The Iron Conc.
- St. Hell Ki.
- You will be the
- STATE OF PERSONS AND
- .
- Vicinal Indiana
- The Table Street, and the Street, Stre
- The second of the second

, 21.0

a = duant = Ai

. - 100 m

to the contract of the contrac

100

1

and the same of the same

0.00

1 100

Security and

THE RESERVE OF THE REAL PROPERTY.

n. manualment

Ally advertise statements

N. Barre

Ta marine and the same and the

The second secon

The state of the s

Au of Separation Profession

and the second s

L C

The state of the s

CITATION OF THE PARTY OF THE PA

Additional Property and the second	
	The second second
	and the same of th
STATE OF THE STATE	m) = J = U = 450.
	Comment of the last of the las
	No. of the
	1 00 move n
The second second	The participant of the
	Allegarin hills.
And the second second	- 150 A A CAT III
and the same of the	the strategies of the
CONTRACTOR OF THE PARTY OF THE	#814891
Spillared by the comment	Character Str.
	PERCHANT PER
and the state of t	This was the South
IV D I .	PROFESSION OF A
make more	CT0764796 124
Sectional factors	Store 19.
DATE STREET	Proposition and
Texas (Designation of the control of the co
Periotesiii i siita	The ogo.
Agettman man	Chestal Company

wheat man

Very learner by energy preserved and heats Jack of sait donners by redger her follow. Wany wegetables cultivated here of Lesbania gravelistora. Los. fed agoate flowers a people. about 50 km w of Kendel starts a region of In hells with well grown took plantations, some being cal. Kinged & years earlier to tack small metrorism surent banilos in waste spots. Orystes damage at Kernal. East of Lemanang the with scattered ormits, a few seemlary thickets, grows, searedly and in. Carlward rice & careary of pears appraiently water is controlling factor. Mendet planted where not arrough water on ring. le eastward and southway a number of works and scattered about the landscape. Some and one Cine.

In. 22 - 40 n Trefralau grounds at the a bright yellow flowered form of Trimera interifolis is planted Loan arnamoutel Clouber Tito the one or male 1.) Fier kury / F. benjaming but with seval works) planted as sucred tree beautiful examples. surrounded by walls bangun habit. Muntingia freelaps the comment street tree (when very commonly yesterday in most towns and willager) fruit, said to be much eaten by tillen. rogeroll Teak plantations east of Jolo (photos). Tall straight coppies from trees cut out bythinking left to, cut down fine hagard. Undergrowth of Leuteera in some front, plented with tead, to cut down for bayand and to protect soil from our during dry season. clean-feller till orphice

fulled out by goods, used for firewood! (ceplanting by seed 4 reeds planted bestreedling blod Teals friest a complete government monopoly. To ent a teals tree in drangard promission required from thest officer. all teals land (2000 800 mm) givenment owned, 10-10% lof teals timber expended. soils east of Sala for some distance som to be mostly requil black ertten soils). ! Rivers and streams though This area very muchy. kast of soto the wellager are surrounded by nown of Thorn bamboo. East of madium barners practically dominator the landrage. & Flat-Topped acacis tonerton becomes frimment, said to be sportaneous. Tamand still lines woods. Corcos much less common her. Vice is dominant through this entire area.

Mean the sea in the vicinity of Pasuruan Opintia and Boraneus reappear Soil is black.

Winning, but folkolinggo & gending Limithe beiff overlooking sea degraded sunt of Sprinting Cartana, patrotola go zayfretelia, Frenz. Malia. and a dry grass, porrilly whaling. instrumed along count toward lass quitibs the bamboo around the villages become way reare. at fasignatile the same of the beach is almost brack with an admirtur of worth coral sand. The tothe coming down and forming the front are from gray fillow basalts, apparently a thick flow. The surface weathers darker than The mornal color of the well. undergrowthy here.

Dec. V. Fasipution

fire climas frest on

fasalt slope - Loblevelien

Tomentosum behorder, Homelium

tomentosum behorden,

flacourten Uvaria fantam,

fizyphus etc. Trees rather

scattered, should Keye

continuous fantang

drainant in shoul leyer.

Part of it less danaded with more or less continuous layer Sterculia pretida, plus those mentioned alone. (Driest region in Joura non less than 10 00 min in a wet reason of 2/2 mo.) Here the undergrowth is thich atmost Many of the trees lose Then leaves during dry season. In Schleidurg denoutering and garaga retain cervy. Undergrowth completely aleciderons, herbacions that disappears. fort thin and when andesitic-basalt "outope generally. Old flow. The more wooded part rs in a railey Dan 84 1 - gut - Balonan at asemboans history oxeent horse court, some etc. West of here a large flat area has been cleared and plowed In large scale cotton planting. feathered & azadurachta Treis left, barning a sort of savanna lands taps.

From Soambereyer a dry sloping savanna, very welly, and to be august Certainly looks that way. This is lower stope of Balona volcans. Commencent tree Achleichera oleroza. Tech plantation below road above road where it circles mountain we a more closed, larger ofen frest. Shallow dark from to blackish soil. eare plantations remost Interplanted with servicency, occasionally heaving of rabiles. This all on fort stopes of roleans, very yentle slope, very wordy. amountus planted elong was. i rin end of surfaced road the vegetation is mostly more or less natural, except for orrasional small plantings of Leucaens. The Leucaena is coffeed and grows up, to comps of thin wands, as thick is a thumb and 3-4 m. tall. few leaves, clumps of fruits.

The vegetation warres from a tangled thicket. choked with Lanton and vines, trees mostly with crowns not touching through apen frest will, or dense sent layer of lantana camana, to savanna with grass and scattered tree and counts of thicket. The gran is dry, barely starting to send up ting, shoots, more advanced whereit has been burned In flat ground are areas of grass on conspicuously black soil. beforest is partly thorny, and party decidaous, startly missophyllon. Talpat, Galoeran -Dirrected lower scopes of the volcans, drastically Juned over, with share tufts of several brinds of grasses a few scattered small trees of various verner-Physianthus emblica, leverpherea growing

etc. a pew small herbs - Buchnera, Vernous 2 4/2. Empholora, etc. gallery frest un ravines - rather dense -Spondies, Premna, Ficus, mounda grawia, Pisana a ta hyllanthus emblica, Lehleichera, etc. ating trickle of water in carry Aprolias frais stone, acattered over dry bullande well above fondies trees. Buts said I be present. (thotosof mountained oder cenya) The flat grassy was with cracked shy have searcely any trees. They are surrounded and of other entire Kd. v4 3.) his around looksout near waterbole. footsout on small serve an flatter ground, below Talput scattered trues of acording, flat topped and spreading, ground in low your deeply wached Rencaera glanted along road for som declares of the side

1978 Jara 106 Die 24 - Pasinfutile degraded frast on steep slope of basalter who with then soil sensichera very common tree in open friend 42 Kanding ? in open rare in rendergrowth 44 consigna? Cansany ?) common in undergrowth 45 Callicapa Tare an undergowth 46 Cabernaemontang rare in undergrowth 47 Wedelia occasional in open 48 Randia recasional in undergrowth 49 Thunbergia slata naw in open Dec. 24 - Bekol 50 felioutenia ovate common in after freit Dec. 24 - Telpas, north Irans of Belowan Volcans gallery frest in ranne 51 Vienna ovasimo

small tree,

scandent should,

flower greenish,

small should; flowers

lians; flowers white,

dependent should, flowers

pinhish purple,

small should, flower

solite dependent of may yellow

showers white.

flowers white.

fruit inmature

shoul

1958 Java 108 39792 Spondias mombres one tree in galley fret in mount >3 mounda very common 54 Viter 3 occurrent 55 Jighhus 56 Hiracola common, twining in shubs 27 Verning commin of engrassland 58 tuplinora nare in open burnel grassless 59 Buchnery rare in open burned grandan 60 mounda common 41 grewing occasional Dec. 25 - Wordings, north of back of Balocran Volcano Dry thickets in savanna er Morinda 1) abutilon indicum (L.) Sweet det. common under trees in Frysell 64 grewin wommen in a small hill 65 Cissus withanderson

fruit about 10 m. tall; small tree; fruit Tomale Tree small tree leaflers sprouts from base of old sticles; flower purple. flowers whitist. small tree; flowers evelite. small tree or shruly 2.5 m. tal, flowers yellow, fruit immature.

spreading tree 8 m. tall; fruits inmature, mid & lo este when sible suffruite scent herbe a slander about 1.5 mm. tall. followers and tree

19- t Jana 110 Carles in soi up & - read in medy and if west im obserte. In naveragant with agots a tanged quillen frest (Photos bowtes buit 5 no on well 4, and , Cassing fictula) On slopes a must navany with acarin lever sulver, Phyllanthus emblica. Came fratula, Banking of medically andrew so (half lozen photos h & " " Plotos of cracked a wind and grantard mit) dround trees and compatities in earny tend to be concentration of about most scandid and semi-acandent (plots) Photos from looker & Behol. The should men together to form a tangled lager about i m. high where the trees are close enough to form an open prost. This in most places is largely Kantana camana, which is decidures here. Dec. 25 Wongsonejo acorus calamus L. small climp along stream

Wonogo - Banjuwange great trees along road of Solmaria malabarica (Brata, m. I, domania, etc. Tamarindes has diseppeared, Wongsorejs - Ceroa very alrendant. Bananas produced for export. Dry hills approach sure at nagrowest part of Bali Strait. Covered by low tangled scrub friest. Bayond there Tamarindus. reappears. Cornert plantations with an without understony of bananas very extensive on coastal flate have. Thouse also planted under coronuts! Commet, here healthy looking back near wongsness mere very yellow-said to be attached by a pest. Trees start bearing at 6 years sensidered too old at soyears. manchot also plented under trees. Laborers who care for trees and make copie felant the crops between the trees as their compensation. exect, with anomalic wayyoda.

tivine, blowers pale lavender

Dec. 25 - freemanuk Craff. The burds) what looking got liveled on beach down a plant from farry. agedirachte, Vibioans tiliacens Lanea grandis (more is too along road for 2-3 lem. us a stuling of en that of Borassus. ten dance thicket or tangled server fret, especially on the right In left some mangrove. Raining very hard. The Wharm has grass beneath, no shouls Said to be burned twice a year. Spacing between savanna and open frest thatos (60 w 78-39) of typical tangled and growth soundscape of Moth Bali. Law several white starlings, The is game repert. i, or spectacular dissected rollano. The country after the game reserve is denochy cultivated, mostly in many in kapote & many

Prila Pulatri - temple - spectantes tolt cliffs. many gray monteys. (perstos). (perstos of some Massus very abundant inthrovinity mean shore. acacia leucophlaca. longe fent topped trees. Lower stopped degraded to ravanna, very much resembling the lower ridges on s. e. Calu. The higher sort, also resemble the colour from a distance. Ukangearea of Coconuls with an understay of Jananas, very lucukant Large flat area of rice. very duruniant also. Under work commits + banares with some areas of marge. Kick and vegetable morning appr. Linardya.

Dec. 24 - Bedugul, Lake Bratan I my margy here has helicel files, not wind selects enther prover a glabous, or ear acros labor a long ridge with plantation in me bride, the steep side above lake still in fairly good montare frest - alrendant epiplantes Engenia, Adefflera Morcary

4703

145 8 Ball Podorangun Barreni Midwella, many lettraca. The with epiplingter from, yourse, Freymentia. Rubour molder axis an undergrowth with very sompiemon, lacinet has along The Estates with long perfect the inflorecency and very flooting translucent prestery not sean but horrely Most of their slopes, even the highest, except those almost -vertical are covered by estille grantation with overatory of Crythman of home native

Limber the rough completed or counts, fruit trees, not terrais, to are 1500's replaced by completed of about 4000's the start to be small farms. At perhabit 9 110' There are nermants of nature frest, plus plants times of Caavaing, Eugensus macroages wild engline. This area

flants in ravines, morthy

E. nobusta, said le de son

C. analong

At Centermandi

taking and Batern lake-Datur

Photos of Kehan temple.

I hotos of agung Volgano and rive pung Work of Borto bolow Bangle.

Platos of Elephant Cave (bow) balling place, archarlogical mating

Beli frigs are a strange beech, clongste, with a leep say in the back and a foot belly, black and gintrin when the Book much like the wild branting, females red, males back allwith the inspictions white grately on the backs of the legs, only the variability in the backs of the legs, only the variability in the backs suggesting any hybrid encerting borne have benten have been alignify myput

118 1957 Bali for age otherway DUX. 26 -bedungers 57716 Caning . indense primary forest 2 79 Caries arimary front with Decre Hotel Kintamann donyard 1 30 Drymana villosa orcasional, with Dundata 1 81 h ymania condata (+) Will. common Nec. 27 Lacred Frest of Langely, dense tall frest of Dipteroup 82 Pisonia silvestris second story tree in 83 Baccaures? in undergrowth 84 Dipterocarpus hasseltis dominant tree in common undergrowth in 86 Prychotria ruly!

brught in by nativesollecta for franching thick sternmed rosette tree; flowers whitesh. F.

beaver plane; fruits immety,

pedicely very viscid.

the you tall, fruit

material picked up from ground under trees 40 m. call, amater should I m. tall armater when broken; forwers white fruit gray green.

Photos of morbitand village

June 17

Jangeh-Level Frest of

Plote reachers has sellie to

Press me a less uniformly about.

40 m. box deh vanes from 25 em.

to 100 cm. trumbs smath for

10 - 20 an. Promis - 20 plings.

10 - 20 an. Promis - 20 plings.

Super varied work.

Chiphytes in canopy.

Eliphytes in conopy temple. Each, Wonardey freet around temple.

Village complex - locas, arriga, arriver july perspect manys extres, Musa, bambos the biliaceus lalaka
Cerba Carira, Marihot Eugene cumini Chumena

gulingan temple - to the soul soul

Villag - weed, wolls, ve, et.

Laden temple (hod. 8-10 bymning
1 200 1.)

actacked by Dryctes, area and then arenge. The palms comming seen are course muriful, arenga primata, area cathern, less commonly, Jelaka edulis, alera commonly, a slender very tall fan palm.

Housergenerally walled with mud or masny walls. The of much walls protected try thateling. Mud walls made of large blocks cut from earth. come brefit in special small bamboo shelters. grus washed twices day. ligs abundant, one of most important esports, second only to coffee. Pigs experted alive in extindin bamboo enges. Lent as gar as Hong rong and singapre.

Betiveen Dinpasan and lanun Pierria grandis van alba is common. Not seen elsevlere in Bali.

122 1998 Bali 39787 1' sycholic common in undergrowth in 88 Paretta he of the undergrowth in 89 melastons occasional around edges of 90 (fed your brifting (L) on steps of temple 9/10 Dipters capies mineral franches common is undergrowth as redlings. Dec. 27 - faling 7 comple 1 92 molling o de temple occashonal # 93 Dantella serjyllyolia Jec. 27 Lanus 1 94 Kimenia americana L infecul regulation Dec 78. Denpasar & gilimanuch Djenerally the area near gilimanula is scarcety xie Mili deathered wish, few villages, no me, almost

no timples, some seend

growth, ferre works of

Enflowing newfolis, maize

123shower white; - fruit rungs when rife. should in tall; flowers white; fruit immating. should in tall, flower deep rose purple. brade white. There redlings, with hairy stipules, mind with and intergrading with there with granow stipules

storm of excling forming very flat motive.

fruit yellow, sour, with from flavor, but flery mornally Thick.

the most important orgs. small development of mang welsen nowles else or island), conspinition gives of Grassus (photos). Black sand beach at gilimans gast magnetite partsions?) or wighte (?) (sample).

124 1958 Jaki

Bali, the coastal flowing, except for the foot around gilinamies is very interest cultivated, mostly in use where water is available for inigation. In places even the diless in the rice fields have a now of beams planted in them, or Sestania

region to another in the pattern of cultivation, etc.

generally, but is also planted, especially on steep slopes, for use as thatch. I haid to last 8-10 years, while arenga shouth fiber, well mostly on temple with and to last 10-10 years.

Dec. 28 - Banjuvangi-Djember From Banjuwangi south largely coconuts, then no This continuer - flat my field with relaids of willage complex, more in less the same to genting. west of genting coffees fegure to appear, shacked by ferene etc. ut about 700-810. Kubba starte somewhat west of this. Still long. comment plantations. Coffee som olominant, and continues so tell we climb a mountain mass. Here dignet degraded forest with climbing fambro (a very will - leafed sp.) appears at about 1800' and coffee disappears it about 22 do -2700 replaced by the segrades very dense front tunder layer a terrific targle, 50 5-10 m. Tref scattered large her uman tom original forest. On the other side of the state hill coffee day not realphan, but there is a little teak, suggesting That the hell is dimestone Then the rolling to me. what disserted country with we brugarata

Trees bete. Villages. 127 18to them. a. of thember an area of old Raret topograpley, much win down. territican Graces - vice - sugar - rubber coffee wing. Oc. teation to bills I remendous dissocial volcano- Koungo to right. nound from adjoing & great migation and bethreen diles level of water wet above that of rice freels, frolder Very green. Xanthoime sagittate much the commonent terret real and in fair. undere of a serious flood Frollow caral toward Semen Volcans, highest notingara. Lamongan og V. on night. Land a be laker or meares in small cont went on side of Lamongan. much sugar and rice in former mouth or red label bed, now golden on rice of great canal. rather high ground theill

mostly main, little a my will sank reldiel tour soil front volcame bouldes in stream, bads ocattered clumps any rows of tramboo. Kice organist nation Streams in This enter region very mighty. There has first to en i very hard rong. Problinggs- Midium West of thouringgo a few Mm. a low coast with clarge Ha very low tandance in otherwise bar would blate. fish trays in shallow muddy water. Dec my Madin to Commontento

Madium Lines very high,

very mystyly

Ne of the large and to

solling hills with teak frest

plantation in various stay

esme allow land.

Teal searce howested and

taken to maket for use as

enoughpers.

Thomoer carnoss very

common along wards and in

fence vows.

about here the large Tunaundus trees devalpers from waderdes my knows (kend) of nice planting tente of Australation. Photo of we have 24 ten ew of sole. etacce and sugar in the region, as well as view. Large Hobacco barrows. Harry pednuts seen around Klaten. I hold of edge of willage of Jondang. confice at leavelanperston - being restred, work goingon since 4 years. Huge Terminalia catapys trees is countryand, Know sund to class from 9th century Hindre welters, Storyer of Vishne, thirty another smaller temple

Bordowa. Mumor angers along edges of very strings with

almost completely deforated.

exceedingly multy.

Lower with and rolest.

on or vice plus villinge

complex (of wanger)

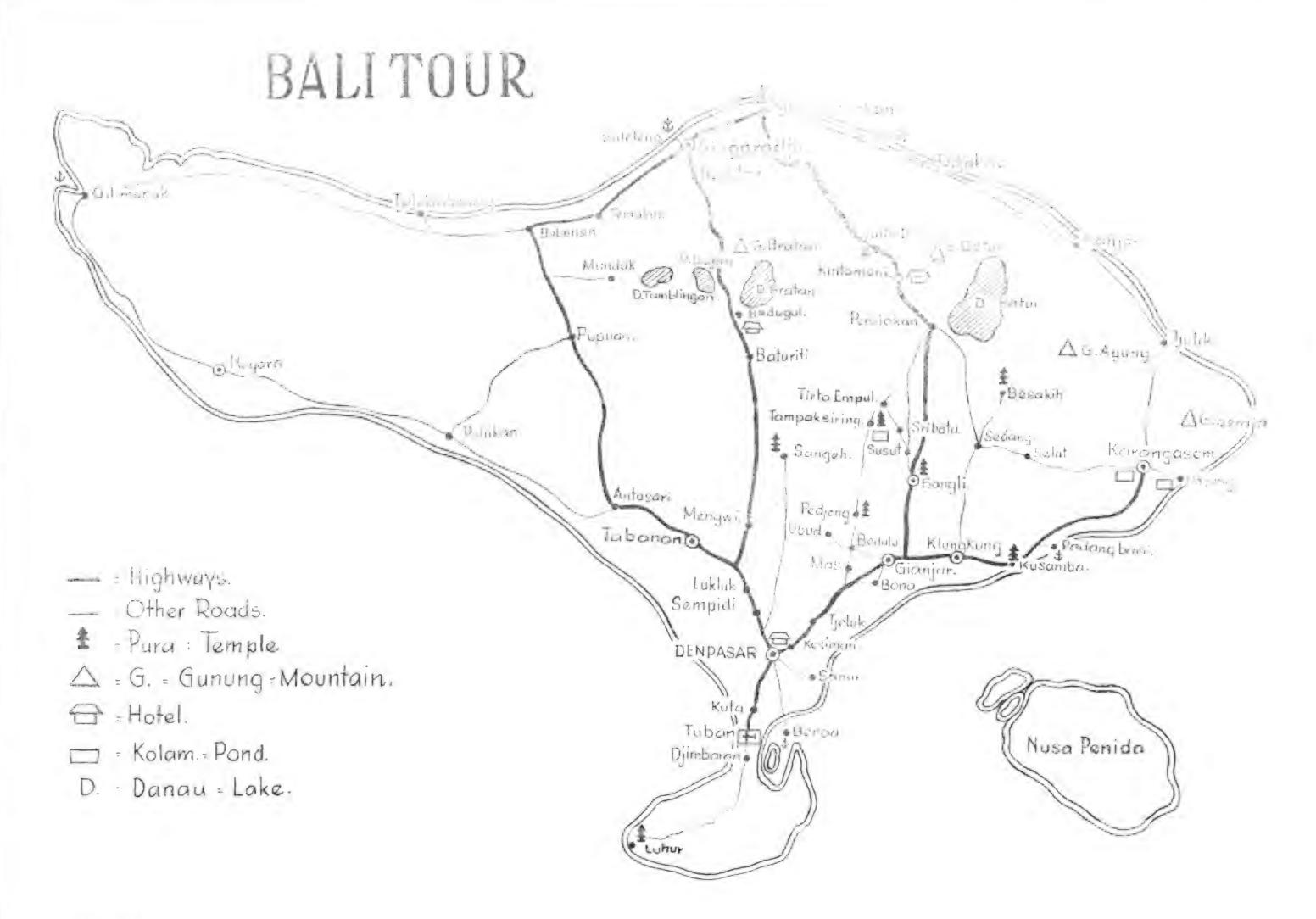
morphes

many complex (of wanger)

Line

teropleylon

to des



THE RS

- From Bali-Hotel to Lukluk (temple). Baturiti and Bedugul (p.m. 12.00 above sea level) on lake Bratan, opportunity for swimming Back to Bali-Hotel. Duration 1 hours.
- From Bali-Hotel to Sangeh (Holy Forest temple and monkeys) then to Mengwi (temple) and back to Bali-Hotel. Duration 3 hours.
- From BaleHotel to Bona to see Ketchak (Monkey dauce). Tickets obtainable at Bali Tour. Duration 3 hours.
- From Bali-Hotel by way of Kedewetti and Ubud (centre of painting) to Bedula (Elephant's Cave). Then to Tampaksiring Exertsion to Gunung Kawi on foot to see the old monastery and King Tourbs. Then to the Holy Spring near Tirta Empul and from there back to Bali Hotel by way of Mas (wood carving) and Tjeluk (silverwork). Duration 5 hours.
- From Bali-Hotel to Tjeluk (silverworks) Gianjar. Bang'i (Pura Kehen) Penelokan (beautiful view on Flake Batur) and the volcano of Batur) and Kintamani (1500 m above sex level). After lunch at Kintamani Hotel back to Bali-Hotel. Duration 7 hours.
- From Bali-Hotel to Tjeluk (silverworks). Mas (wood carvings), Bedulu (Elephant's Cive). Tampaksiring: Excursion to Guenning Kawi (old monastery, King Tomb) on foot. By way of Sebatu, Susut, Bangli (Pura Kehen) Penelokan (beautiful view of Lake Batur and volcano of Batur) to Kintamani (1500 m above sea level.) After picnic hunch at Kintamani Hotel back to Bali-Hotel. Duration 7 hours.
- From Bali-Hotel by way of Tjeluk (silverworks), and Gianjar to Klungkung (Kertagosa, old courtroom). Then by way of Bukit Djambul with beautiful view on the valley of Klungkung and the island of Nusa Penida, to Besakih (Great temple, mother temple of Bali). Then by way of Rendang and Selat to Tirta Gangga (opportunity for swimming) picnic lunch taken from Bali-Hotel). After lunch to Udjung (water palace of Radja Karangasem and via Kusambe (Goa lawah, Bats Cave). Klungkung back to Bali-Hotel. Duration 9 hours.
- S S II From Bali-Hotel to Sanur (sea bath at Sanur, Swiming and opportunity to visit Mr. Le Mayeur, painter). Duration 3 hours.
- SSJ From Bali-Hotel by way of Sempidi and Kapal. Mengwi, the by way Kediri to Tanahlot (temple on a rock in sea) Back to Bali-Hotel. Duration 4 hours.
- SSN From Bali-Hotel to Kuta Beach Djaja, Kuta to visit the Painter Agus Djaya. There is a nice beach in opportunity for swimming. Duration 3 hours.

9 2 1 7 1 1 1 1 1 1 1 1 1 1 1 fraging water. I some - the augital more of which is the Borobuden Hugen , artid date from 778000 - restored but organat stones and mager weld 204 mager of Redding a musing taken to diane by Thuldongham (Marry glotte repremen region - most densely propreleted area - Javo 1400 pe is him Village complex offlow to weeply not proved than my fields. Nome me freede have gardens water lavel producest of him a low pland of grany strills waget ato. I hatten makes is right completely defrected, except Lever startation former a loteer en tocomety, mostly. Dec 30 Purewollaste to Bogos. Logally of brownful lineater with with tech plantation. grazing permitted in texts ptdentations, and erosion

a mit privated. River exceedingly mully. freetends with and week on to rice files village cy Myster. in wellage complex (M. Wangon) entre Filliam Telescer Maryo the Merica Cectra averyor caran by Vine linger stacebarton offerenous areca ansione Hat. arlocarpus heterophyllen Citrus spy. beadmen Manichot avenus 120 __ Pridum 10649 10 M. Contention. linestis green De ama /amounte many ornamento ou Carrila edula another low ranged of

limestone well, mostly intech not heavily grouped. a few villing's and brown marge welting Thon west of - Way, the deals antime for tracture small cultivated pratices thickets, wer in now mer willage complex. I some degrades frest on highest say stopes. fort some very retelpareas bone. Lon teals plantating again, this willy country extend exectioned some time of it to suth, running parallel is it through low rolling, will in teak much grazed he about Majeling a day over of bellage complex and rege. Extract prestations or lower slope hen externer flooded of hills covered by meinted, fields red soil, then mother large followed ones, wear Wandrego, the much malker On Bloth sides of Tarchmely to a morace of vice fields

and small rounded till with trees shootly work banks, etc dwellings , undergrowth, some offile gent cereal ava. Victurage landeceps, fideally the proportion of year become less, that of help more, the bill-guse and they their is a free the predominantly upon landiche with some night her and there. oward great the create in shorestainers. rolcanic, with ofectacular we terrace below shifting - welling on higher strep stope fittle freed left but therefor in navener arenga common Many the lowering Nate not appleas to be monder monocuper + at worst has a number of axillers melinerconcer at ence malibely frue. Long this contling in is not Elen but sortenans say indeprintely, hay treed in bad shape, gon. dead but no correlation forme prowering ball was down hunds. The

136 1959 Janes Cogni

76 Prenderenthamen

5 17 Hum crepitans

5 94 Huna

flower white somewhat bragant, linear shiplety and when enabled and should almost further were green with lash jurge with lash jurge with purple with purple date means content.

and permale flowers and dark red; the make spike whith two where of the flowers early.

and female flowers white made spikes compressed in the decele with said paralle with axis flowers spikely, many, adapt of the stigging flowers deeply the

138

1919 Untralia inc. 9 During - Dring Thin, wild of Surve down The monday all Today, Unensday. I chea around I amon is given from frost of rather what ties, mostly magate I in Lorenze in Egyptical teleprise as in their of invariantes. chiamonda Extracting or handersons of the fleen inoplayed was refreier in schlisten Delonin region Condorantemen comthair Congress printerson in fremplat Colyscia friends? Thursda portora velage Theretia perumana Gumeria intra tierre of antigoner regitations Lawsonia withing Gragounvelles spectabilis Catharanthus roscus acalypha amentarea vara. a. hispida fatropha podegracia nephrolepis of Synamium of Lindagerus anens Eughoring pulcherung hance velice, nothings marchet exculenta range tel a

Portage .

1959 matralia

Prevailing regetation was Darwin is a seasonal open front, varying trans savanna, of two exerces of eneulyptus. Buchananca, Terminalia edulia, gerrellen sp. teden 2/1/2, with Cycar meder rather common and devision humilio race. The ground corering ball years. This is burned every year. freatly, with no some topographic difference, is a type of minson fruit densely tangled with wines, difficult is wall though tatur about is m. Inday season the majority of trees and most divindery outh species lose leaves, but someformly a short time Burth every year. Patches in viewnty of Dames being destroyed for robding golf vouse, etc. mangines common along court but your on with terraces expressed at lost tids, Tenaces cut in a peculiar rode cally challe breatly, a bedded becco who derina

in parts seen, but a white flowered furnityen commen, Pemplies acidaly, acqueras, formeraty, workennes ?, etc. Really awampy places seem mostly almost fruit stands of a shouldy exticornia. Hipporrade manyamilly occur, loubtless introduced. clong rocky shore and top of made thickets of various species, with Leaevela serves, adia subcordata, Juellanda speciosa, Eapparis of. ?, grewing sp. Hibiscus tiliaceus, Forestin Cheferry populnea, Liocarpus catifolia. alstonia sp. an beacher formore per-caping age, trasiliences. Passifling fortide with range fruit connor but segments tracts scarcily enterwoven.

welly shots.

ref. clouds.

145 1.59 australis

epprenently seems from a cope very low. Several would fite with water around edges of late . The side lake born sondy sting. Evidently the red and some The side scarcely blows and onto the lake bed, but there are very small diver a fule I white sand in the lake bed. Them a considerable strip of somal ripple-like dunes. Lake become onne vegelated, nor predominantly dules, still very should characted from the red area, both of these with somewhat of a pratchioner of vegetation, a very curious patterns possibly due to man, but very difficult to explain. Then some rolling lighter red land with aboundant pools of muddy water. Then an inegular peters of red and pale gray areas, some with you regulation others with almost nothing.

Vegetation becoming somewhat

10.07 a red desert with margular server were tation apparently approaching taking Jennes towers

10.03

11:41

150 1999 australia Welia az derach so worse of in ternamen aphyllog of puffered when we wellenty printer of the last we had to the records Orn Che front-tapped - red grain, comments and gen sungly Free Tora true, the total quealy to and in stopes a gray tow often serit, probably atiples. Left Cennant Spo. Savanna with Tridens? chumbs - cinquelas dead in centra Kow gray-green reaces? Then mosaix of pratices of savanna with levert, very set. Then rather even reserve with regetation in a somewhat viented "you" pattern, possibly smell fixed dunes with bare red soil vetween them. I where is some Then desert mark and interspend with rights attern catine uneq red. Elightly mas is Karring 11.07 with negetation. mosair of red and stightly a sen arm, gallery soul in navines, areas of signals sunt descrit fatches of green

along bottom land of man

atream paralleling wouse.

here very bright red areas

custalia light ied soil Kather lene en both sides; to right so the a range of long bells, from a strile ridge with very spanse orgetation agrept in naviner. 1127 regular morary of a ex of direct savanna, lovert givestand and almost you wear, with meander y stream bottom-land over is unser gran, still to. flower javanny: talked. trange are any desert graveland with enough higher spots denser vegetation in rawing, serventhered along large, as and along stream beds free has all the elipsone of a formerly badly over 1918 range, about long energy for cattle trails to disappears. 11.35 Small low sedimentary slateon on left, Then years, ramines madrating four sides, with send. 11:37 Low erosin connacto with removed. Then shallow conflicated direction If and desert grandend and broded lare area.

Shallow vegetates ravine.

1 by Somewhat is enter selies

thrub desert with patches white shots in the red that may be prospect holes. (hen whose orders continuous sed should served, locally rather lense. gran with strubby petcher, 11:43 gradually changing to iteppe. wear with slight relief, should desert, flat areas, apparently lake bed, steppe. thrubby areas may be small rand dunes, perhaps sand collected by bushes. The lake bed is extensive. 11:39 it other side of it long dune ridge with concentric bands of shrube (hodachione) active nigges bands of steppe. Ridges trave and red except for stepper zhrubo. stelige northy gave, dure frattern complete I no assurance that There are oliver). scattered darls low mountain many, wend by open south a sout desert, bor med fans and fluts between then with only southered doubs, parhage small trees. thying at how alt, very rough

1177

unstralia 1979 continuous low dark we. middle distance & cest. red flats closer with scutterey should a small true Then rettered low Budly evoled area, trees in cenes, frombly quelles out pattern very stronges posselly concentrually famille dune ridger and valley - probably es, pattern very extension 1 10,10 iteductions). At sam system with trees aling ations. Then more of same pattern (whote, sow.) 1000 apparently approaching willy. When the hills for gallery frest a die 1114 etream a traval levert on low hells. High hele of mos in distance in vola is a 17.16 price of mays, a francisco to sorted vellage, with a charly etecht very straight udge y well to jone . elin unother standing muddy water getwein Amole for to per too atrivatant in wildy reservor. Then very flat with a from with scotlers trees - --binkley a post device.

1479 custralia Largery much of place in wherein hard theory welder. - on plate with white resal per se topothe and much Storates protested in Esta 12 Thing . 1 = = co mennathing streng them server it special is to cataly regulation. - mise with stritchers, with and they where we have und unactioned and con the contract to I am her the highest gelation of manual francis town in the state of the second " Carry marches out and the lamen when the sign telling Travelly nothing in the Every a food brailer was - I to a tel owner with very old strentry soul, - It not by vegetation. while dust is ordently string is now along the color of which Trevenueron who sid men frainted desired no vegetation - Land Lameratacity is come you a seefel in Salt time of the - al - while the man in protection intercorner, seed the most recount desert crossed a broad white chair in the face of the worlds. Frost a near wealth egitation. and of great when Un reland this of stightly I am more grounted been 57 11 fremended of slightly right were lought the weather color towny could the more sall. I woulding water constitute to we landing almost a sort of with preminent have of regetated client miner will that the of a set year a trivial track . There's Derry take no med series or nother, where got to of out notion, walk rakes I the does not from the mount to the way one everyed of 151 , not a forwar ind of main body of halis The morther and morther many mille the detected Junda, all while and dry, army englisher regelation to la Cale profes. " in the struction comments of The live of from There come must end dure and small total the gentlement with the fresh of interest

in the same it totals.

The sales of same one will a same of the s

tillis land mortly savanna, some good from halle of same

faire alelande

Open forest of Everal expetus

Camaldulandes, 2. volorata

moderation of aracia exp.

Casuarina of etc. (photos,

also of eners - brangeron.

in encloses. Concorgen.

(photos) with Hyporicum (proto) (result of frie). hit.

Loter

John .

The bligging, action by the send action to send to send to send to send . In prest also some S. breater

mark Extraperments

gatining of water of humo, who toods

Layer almost continuous.

Leattered Exocapius, sevens

genera of leguminous shouts,

Etyphelia etc:

Infriganceratophyllus (1456)

Rooteaces orcasons.

Ceptoguminon dominant in

shout layer Hakea commen.

Silenophyllous secret

with scattered encely fitus

above & levertylon in J.g.

(ghtos).

Lower alopes, savanna- proof

of E. leveryeylon (petotos)

Trem treet 10-19 m. with

surrounded by wealyplace

or free frest to the too) nather

The color of these forests is uniformly a dull darle green. Only the Execusion in the understry is hight green. The should darle green. The should dark green. The grass layer in the savance and open frest, and on grassy flats is strow yellow. This is a mediterranean type of landscape and reflects a Mediterranean climate - work

4 ranny months in winter, the

rest of the yeardry. Wire froducin

164 1959 instruing

326

Jam 12 a Tout of an externor " melforeme is 100 pm it and very ow contline, many sand leach, a few very love eliffy to see of city. for will a parenaula cont of city covered with savanna, replaced northward by per frest as higher clopes dre reached themal received s. o. of city forme stopen nember covered. attern of distribution of fourts and open land suggests cleaning by man at least - many Holling country, mostly

trees. I have of it and affaired in parties, and along absent from here in, except a few along water courses and raving, and in a few areas of affairently with rolly and trees and raving with some open send trees and raving where their are scattered small trees and raving where open send, the fills mostly dry-famed, my brown or where sends over the beauty.

1) representing boy tong some seems to be derivating from some seems to be derivating from the seems

168 1959 questralia

19906 hon 10 - adelaide d. 9.
39906 Spengeling my Lofty
marshy place

common a which layer is

Jan. 11 Thellowing (ex) Crategos sp. ampeloping. rantementhus & Liquetum vulgar Green of minerally looks February molle much lentrestin of. Coprosing banen: abertela prictum Washingtonin firefer Vernica (Hebs) of. Choraga temata: Bellis perennis Phot nex canamene whing magelling Hydronger I the dimmining Premes (paperes red Ed.) dolanding? Photo providents ! Mosponin carapolium. beloweling ela geneun erryle liene endlene

should should firmers decorrenge in who

Volumen opelier. Cotoneaster granos anna hybr Callistemm Torgetter of. Helenner " 100 annua Tribotum report Violatricolo althorn sover Ulmus of (globa?) alternanther reversola Cedus libam? Liquidamlan styrauflus raxioner sp. Topulus aigus (dombardy) Hi Vascus - who tree, stellet lifeldly me uns. agather of. ricalyptus 24. Coffeelies deltoides? aronionia columnami ! (nescolus) mores with. Times of Jul unof Irlin babylonica

172Eildon Kerenvous, 4 very cleaned valley in mountain 357 comply drowned valley. I right in a mostly mondes a high very rocky massy, 3:14 range of low mountains with nealis and ridgest the quante, ravines mother ams of receiver in savanna covered hilly and front cracks wooded 3,01 Morthern tip of reservoir also lower slopes, faid 5 It much snow in writes and large aling resort Then rather level to slight Earge villey righten, willing land, sarana, 3:15 a few harvested gran fully with much cleared land, grass mostly dry. mountains between well morain of dense forest, often 3:16-18 worded. I wan another frest, sandring, and cultivated comes mountain man, land. form of grans in green. solidly wooded. 127 Vant densety world area, 3:17 Very large reserve a few small cleaned patchen Eleavel walleyon it. queto mountainous. Ly train to left of course. They vait wooded Rather rugged mountains mountain and, with to right. Weittle classed and formed a postered land notial appears to be one freak and a tright platery in a few of the valleys. above timber-line in aperrals on the mounter restance to right (Ht to works) stoperare slightly of et, typically mountain medon string some good of, as fan as can be made varying to completely closed en places the smaller peaker dans wast the wooded who slightly back on tops. but with a few wooded 3:23 forme high ridges apparently have soul or west side, a reliege stretching into dectas dence Greet of day brownish on left, there walle you took cotor on east a motherix. a let to extension of nound

australia 177Allin. billy arey. Parger of low till, it, 45 % by low worded hills. Cambers. Ten prestiguesy aleg between. 420 theandaring stream with Jan 12 - Duberna - Lydney clear water winding through and of plans bills they crossing into! 400 left tenferra valley and joining use. Stately of rather tall offen in other side of vacies. freit, other union to right, on extension wordy grately of there is savanna area of low hills. with norman assumed yellen freists on nover frats. - dead limber possible form errors quelying in from fine wir stretches sides of valley, but stream with of hersdend, forms so not muddy, at least now rather bad environ Patcher Hills covered by savana, of open brown and angular, look badly vergrazed. The may be from cleaning Hulymonly, moraing ofen frest, savanno inc - perations rather than find vergenged grass, some really idage latter receivour closed front on wington wear. with rathe middy water. 4.18 Franky high wooded mountains very then yours on flats for a left, a volly rugged near show, no tree except sparsely wooded range in where hills or cliffe right, becomes her ing get come down to show. Eur flots of grass, with and more densely more did a we follow it. patelles of savanna and valley verow parture and fush quelles partially savanina, audity gulled. 4011 Hillswith my dig aded worded grain very freet and savaring. this troubing greta -433 yarry rally with many souple large fronds Oren order with patole and detericial fronds they extensive rowanny or my of fruit and savanna, som

178 757 179of the front mathe server, of Ayelney Flats and tertiales some an oltaled will around tydown very FYY There I day in territor to the 1) - et 11 - 14 thes seems to in where the fourt is a son The railed town not Lydney Beautiful weent from the state of the Bulled benchesorth, name I lank compan on 4 Try of dunes behind them the runte a rund frested afred exact, but enough area - rollies in system of not all fromting same che in edurymation of " asolatend a new der pealers High escarpentent throughout of their anough quet back of exact. area tras a recorded protter Letinal Und Safatting, a weatening - title a law flow mostly fromted, a little Transland some now bunknisted wellow the mount commen worded, several reserving distance their arries yourse at point wheel in commission. for frants very thinky a myound brown entwest worded a semberrered. incontany system, I have much trave with expressed so hote confiles and will worked and presumetry inthis Allowell of acres he a rate acres subdivision or tronning are as on their plating, met on incellent - 11 - 100. one of very complicated - summerded by some in constant and a parently tydney sastines and frelit weel westly back of is wroted townfiles will and thy dray is more of less another long simular is in 45.41 9 pres country with winting in middle distance to let ? river in a transfer than by in the The word, governd instensione Andrey. for me met verenbed - book - 2 - Truck front close to extended - I mite, - interest Then in F & 2 - but have the he arrons interests mean wideally said dock form want food in isluary.

orcasional

og Englinsten heterophylla L. M. K. L. Viend

grangemen torrentories still persists for a few hendred yards along the road and somewhat into the frest. It auties attains a height of trey meters, and is definitely wordy. The flower open wide in the morning (about 8 a m.), have a justuite coherent stigmas; somewho bent is no ride. The plants are mostly body unfected by smell mealy below tended to terry wests, and the most heavily infected plate andying back non. the Tipe. also some of the mante seem to have moran liseas while makes the leaves were

MISSOURI BOTANICAL GARDEN

"SHAW'S GARDEN"

2315 TOWER GROVE AVENUE ST. LOUIS 10. MISSOURI PROSPECT 6-5567

February 9, 1959

Dr. F. R. Fosberg Facific Vegetation Project Mational Research Council Washington 25. D. C.

Dear Rayr

Thanks very much for the Poinsettia seed. They are both the angular, coarsely tuberculate seed of T. heterophylla. As you note, the pedicels do elongate and straighten as the fruit mature. This gives the capsule a relatively clear shot for its explosive dehiscence. I am very glad to get the seeds, though I'm not sure that I'll try to grow a Poinsettia garden this summer. I want to spend at least a month in Lexico, collecting over in the west, and by the time I return from Montreal, the summer will be nearly gone.

I have been somewhat side-tracked lately, but I do intend to write up my poinsettia data one of these days.

With best regards.

Sincerely,

Jan 14 - Between Kolen Cate
and malrapun P. .

Transpir for it.

Foreyour tomentoonen

common Locally

or Eigherten hotersphylla L. M. R. L. Irent

youry freem tornentous still persects for a few hundred yards ilong the road and symenthat into the frest. It autice attains a height of the meters, and is definitely wordy. The flowers open wide in the morning (about 3 a m) boat a ger and coherent stigmas, someth fort a ne side. in plants are mostly badly inferted by smit mealy velops to ded to terry unto, and the most heavely infected tiend and dying back with the Type also some - The mantiscento berg morani les es es truct makes the leaves com

showers light yellow open; stigmen; stigmen; elmost while, stems lead of the formal banes, searly nates. (substantial) saves, searly nates. (substantial) searly shape, very rough steply lobed ad bloomy rough stigment last and blooms and stigment last and blooms and stigment last and blooms and stigment last and blooms at last and blooms and stigment last and blooms at last and blooms at last and blooms at last and blooms at last and blooms and blooms at last and blooms at last and blooms at last and blooms.

seaves of coolineum, cut with althorit complete petiols, and held in water in a some weels word developed norts and weels when in a completely healthy condition looks radiated from and and of petiols.

I am 700 - Elight Akm Francisco to bridge lift ridgelan and of tills back of Jahrand in a very insdealt areathat is not cut up for earliestate. They a year y partned trelle, bulgarens of arternies californica, some invaded by trees, and some good statelies of low open is closed forest. Konde make much of this quite accessible east of this. My Drack is word nigged and northy apparently bras some tue chaptural sone freet, and much wary steels asstand, as well in more gentler gracey skyles Vertex feeled with fog. der fity in mostly world total ag, a least that she were to thelle is feeling to a Culy was a war. I son Such on it very largely or morare of large a const your prest with a maller a end of chapanas, the to undaning the of con not stray, and ratey soften eleaned forms in say

engged i may well up in the mountains are a var of closed inferons forest they varying locally to ofen front and anaparral open stopes with scattered trees more and more common represent, y little restlered snow in the town ofen frest more in the stored Great, upper morains of crosed forest, from forest, and for sloper deeply anow-covered. more and more from more and wetry redges and stopes uprivary, tell country as essentially bare with patches of open forest in valley much bare work. Inow not especially treasy tome high granite love, and ridges with almost none. Lastern slopes have almost no anow. served haly to north, some nest with and a little every with considerable

anow. Otherwise, along

course south and woutheast

of lake very little onder, large

gently stopes of rage bush,

945

scall definitions. on rides of rannes and canyon. Then considerable -of norther dissected stopes and toes mountains The report parts of wines are covered by speck conferon forest, or your armon, or early Tell, com super to soge bush, I some allewers I are word by roge trust. There wills with then ment and savanny Then what seems to be desirt with me my apare regitations of with dissected, variously not even the low mountains stowing in y winds vegitation from this altitude. several dry later with book allutrat fans mais down to them on the fran worth of dry lake newest comes what appear to be id bartially stabilized away born freeting northwestward i try hing ow tores thus form. They dung e ruld be with investigating in the ground. another small dry inter men immediately is egg of course. eville-wirst appear to be clumps

of egetation tolding small devices turali on frame a ound it. Very watery tille a low mountains east of them, with weathery zuriginal. the word valley. da is a ear outerspring for for delvis weigh is a scuttered whiteh yes to that must be prospect lister. stightly billy land, then another emminy valley with grant face, an V strapet air field but no trun it all on their and of wow. range stape of transversally arranged duny little regitation evident in all this country except in amorther fan The ange - bush. is seen assirants protructing the rugh allurum. hen wex low mountains. and acturing filled - receipt, direction not very strang. Rugged leigh mountains for a welth. Wide valley some patches of Aunes. of our mountain, with realtery trees, much brighter and woodef

Then another word out - re- mys of english my (or milliand) stranged The cow fraces on the souls, and I w valley. Then much dans ing what y how my interes and directly country enter recent decentions of weed rackings. It hat office The a live field immediately clong found, with a large want money trans a sarge by late someway To north. fouth of it rather myged mountains with with conjugacon fronton sign or little avory. The much higher workering Hardages Holocator My or mande The untarne with exert were to treath, in the allut al on along it made dome for sloper die erry sported with your and provided below? or what a wide racey with a steam with, evaluary - or c erroll have, bother extensive a son of march, extending factorneth, running 25 ntbroad Rether low mountain worded to mathy to easy of

they walley, then it sandy basen. Then a low - morramous and with reathered trees, sence with a little word in trigher month slope. I nother wide valley -un a near ter nerada-kel Lider. Invested small anger in generally a cer wisem - filled area, some of these rather large, and well forester. - little mow on mothy to by sloper crossed a fairly ligh range with another considerably eigher to north, ahead alternating rages and alluvium. filled rathers with dry takes, for some distance. Valleys law, reattered junifier on descertion, mountain sharely to woderately wooded. Very little mow. a coupled, small dates with water in valley a north, otherwise atternating bas flats and sparely wooded mountains 1241 for higher heales with patty dense front.

190

199 & lettle arrane navener mar

The seed by my man interest of over my person had been settle or the seed of t

to hours avered with the levery solding forests with the fewery

pottern in a social programme, was made for and a so

for yearthy in items to properly

sullying a resent the white

mostly agreed, incest, dightly

mostly slightly incest, dightly

reardering

199 North for your work morning of the formally southerned, to the formal of the forma

PAGE SE B

Tomato Bake

broni in boiling satted waatterpan. Heat slowly until trees F) for 35 minutes, agreements are well blend. Makes 4 servings.

ed and mixture is creamy. hold in vooked macaroni Cook & nunces albow ma. and I's cups culted cooked ham Pour to of this mixthre inin a greated casor for about 10 minutes govern Nevl arrange a laybaln and rings, Combine, or of 4 treels innuite halves I've supe milk, I've supe soil over the magazout. Add rebread crumbs, 4. leasanon estining macsimal misfutts. alt, 1 temposm Worcestes. Top with the offer 4 temshire sauce, 1% lablespoons in halves Cover entire top prepared mustard and I cup while broad crumins. Hake in whed American cheese of a moderate oven 1375 de-



PAGE 40

with Isle Hobbyists

Hikers Discover Varied Plants

usually rich in variety of dom seen elsewhere, accurdplant life, and only of native ling to Thomas M. L. Meplants but also in the large | Guire, veteran forester. number of plants introduced here.

Those who look the Waiann bike last Sunday had opportunity to observe the variety.

There is a shrub in Walregion, that is, it was found nowhere also in the world When first identified by the betanist, Dr. Joseph Rock.

It is named Solanum carterianum, after Hawatt's sevend Governor, George R. Carter.

BHRUR SPREADS

In the years since it has heen reported spreading to Watahole and Watkane, the two valleys adjoining Wai-

By HARRY A. WHITTEN : Also in Walanu is the The Hawanan forest is un- white strawberry guava, sel-

> These are a few of the examples of plants to be found along one Oahu trail.

The Hawsian Trail and Mountain Club has no hike this coming Sunday, as members are having their and that is endemie to this anonal has at their Waimanalo clubhouse.

ft J. Baker, kamaarna photographer and president of the club in years past, has returned from a trip to Europe that included 27 days in the Soviet Union, as Well as shorter slays in Paland and Czechoslovakia, topped off by three weeks in

Mary Jane Bagley has also returned to Honntulu, after working in Washington, D.C.

